

**ENCLOSURE (1)**

**BALTIMORE GAS AND ELECTRIC COMPANY  
INSERVICE INSPECTION SUMMARY REPORT  
FOR CALVERT CLIFFS UNIT 2**

**ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI, FORM NIS-1**

9908110158 990806  
PDR ADOCK 05000318  
G PDR

## NIS-1

## OWNER'S REPORT FOR INSERVICE INSPECTIONS

(As required by the Provisions of the ASME Code Rules)

1. Owner Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

(Name and Address of Owner)

2. Plant Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

(Name and Address of Plant)

3. Plant Unit 24. Owner Certificate of Authorization (if required) N/A5. Commercial Service Date 04/01/19776. National Board Number for Unit 20912

## 7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Pressure Vessel/Containment	Combustion Engineering	CE-67108	14001-NV	20912
Pressurizer	Combustion Engineering	CE 67603	14001-NV	20916
Steam Generator #21	Combustion Engineering	CE 67506	14001-NV	20924
Steam Generator #22	Combustion Engineering	CE 67507	14001-NV	20925
Reactor Coolant Piping/Supports	Combustion Engineering	N/A	N/A	N/A
#21A Reactor Coolant Pump	Byron Jackson	681-N-0441	14001-NV	N/A
#21B Reactor Coolant Pump	Byron Jackson	681-N-0442	14001-NV	N/A
#22A Reactor Coolant Pump	Byron Jackson	681-N-0443	14001-NV	N/A
#22B Reactor Coolant Pump	Byron Jackson	681-N-0444	14001-NV	N/A
Safety Injection Piping/Supports	Bechtel	N/A	N/A	N/A
Pressurizer Spray Piping/Supports	Bechtel	N/A	N/A	N/A
Shutdown Cooling Piping/Supports	Bechtel	N/A	N/A	N/A
Pressurizer Safety & Relief Piping/Supports	Bechtel	N/A	N/A	N/A
Charging Piping/Supports	Bechtel	N/A	N/A	N/A
Letdown Piping/Supports	Bechtel	N/A	N/A	N/A
Main Steam Piping/Supports	Bechtel	N/A	N/A	N/A
Feedwater Piping/Supports	Bechtel	N/A	N/A	N/A
Regenerative Heat Exchanger	Whitlock	75252	56442 NV	N/A

8. Examination Dates 6/30/1997to 5/6/1999

# NIS-1

- 9. Inspection Period Identification: 1996 to 1999
- 10. Inspection Interval Identification: 1988 to 1999
- 11. Applicable Edition of Section X 1983 Addenda Summer 83

12. Date/Revision of Inspection Plan: October 1994, Change 5

13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan.

The examinations reported herein constitute the twelfth report of inservice inspections performed at Calvert Cliffs Unit 2, and the second report within the third period of the second interval of commercial operation. The examinations for the second interval as required by the Long-Term Examination Plan for Calvert Cliffs Unit 2, were performed in accordance with the 1983 Edition of ASME Code Section XI with Addenda through Summer, 1983. Nondestructive examination data and procedures are available at the plant site for review.

14. Abstract of Results of Examinations and Tests.

1. Eddy current examinations of #21 and #22 Steam Generators in 1999 revealed signs of less severe steam generator tube degradation than that seen in the 1997 examination. Results of #21 Steam Generator examinations showed that 253 tubes were defective. Inspection of #22 Steam Generator revealed that 301 tubes were defective.

2. Volumetric examination to satisfy the Ten-Year Inservice Inspection of the Reactor Pressure Vessel (RPV), detected nine non-geometric subsurface indications. Eight were located in six different RPV shell welds and one indication was located in one nozzle - to - shell weld.

3. The Unit 2 Containment moisture barrier was scheduled for replacement due to damage caused by aging and poor worker practices in the area during previous outages. Examinations required by ASME XI Class MC, detected degradation of the Containment liner plate below the seal area (considered an inaccessible area). Corrosion and pitting were evident. The visual examination was supplemented with ultrasonic thickness testing and depth measurements to determine the remaining Containment liner thickness. The three most severe locations were selected and the results indicated that the Containment liner thickness was reduced in these areas due to wastage and exceeded 10% of the nominal wall.

15. Abstract of Corrective Measures.

1. The defective tubes in #21 Steam Generator were plugged, increasing the number of plugged tubes to 957 (11.2%). The defective tubes in #22 Steam Generator were also plugged, increasing its total to 744 (8.7%) tubes plugged.

2. The non-geometric indications detected during volumetric examination of the Unit 2 Reactor Pressure Vessel were sized and determined to be Code-allowable per IWB-3500 of ASME Section XI.

3. The visual examination of the Unit 2 moisture barrier was supplemented with ultrasonic thickness testing and depth measurements to determine the remaining Containment liner thickness. The three most severe locations were selected and the results indicated that the liner thickness in these areas was reduced due to wastage caused by corrosion and exceeded 10% of the nominal wall. An Engineering Evaluation was performed under ES199900382 and found the remaining wall thickness was acceptable without repair. The root cause of the degradation was determined to be the inadequate moisture barrier seal provided by the old type sealant. The seal had failed due to aging and poor work practices. Corrective actions included coating of the Containment liner surface below the floor grade, installation of a high density elastomer which provides superior sealing capabilities, and continued examinations of the moisture barrier seal during system engineer walkdowns. Long-term corrective actions include an inspection of the previously identified areas with the most severe degradation, a verification of the assumed corrosion rate in the Engineering evaluation, inspection of the Containment liner around Steam Generator pedestals and buttresses for similar corrosion, and evaluation of the need to examine Unit-1's moisture barrier during the upcoming refueling outage.

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

Date 7/21/99 Signed BALTIMORE GAS & ELECTRIC CO By Keith M. Hoffman  
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or provinces of MARYLAND and employed by FACTORY MUTUAL INSURANCE COMPANY of NORWOOD MA have inspected the components described in this Owner's Report during the period 6-30-97 to 5-6-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the inspection plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes and any warranty, expressed or implied, concerning the examinations, tests, and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence  
Inspector's Signature

Commissions NB8226 ANI, MD647  
National Board, State, Province, and Endorsements

Date July 27, 1999



ATTACHMENT 1

Inservice Inspection Report  
3/3/2

- 1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203
- 2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702
- 3. Plant Unit: 2
- 4. Owner Certificate of Authorization( If Req.) N/A
- 5. Commercial Service Date: 04/01/1977
- 6. National Board Number for Unit: 20912

EXAM CATEGORY / ITEM NUMBER: -- / --

INTERIOR ATTACHMENTS AND CORE SUPPORT STRUCTURES

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
101362	NOZZLES	CHARGING INLET, SAFETY INJECTION AND SURGE NOZZLES	

Exam Results

99VE034 Accept

INTERIOR SURFACES AND CORE SUPPORT STRUCTURES

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
101361	CORE SHROUD WELDS	CSW WELDS NEAR FUEL AREA	

Exam Results

99VE033 Accept

EXAM CATEGORY / ITEM NUMBER: B-A / B-RF012

RPV CIRC WELDS

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
001000	8-203	UPPER TO MIDDLE SHELL	ONE AUTSLIC40 INDICATION WAS SIZED WITH AUTSLIC20 AND AUTSLIC35 SEARCH UNITS AND FOUND ALLOWABLE IN ACCORDANCE WITH IWB-3510-1. SEE CNF BGE001. D70187-2/D70389-1.

Exam Results

99VE001 Accept

EXAM CATEGORY / ITEM NUMBER: B-A / B1.11

RPV CIRC WELDS

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
001020	10-203	LOWER SHELL TO LOWER HEAD	LIMITED EXAM DUE TO PROXIMITY OF CORE SUPPORT LUGS AND FLOW SKIRT. TWO AUTSLIC40 INDICATIONS WERE SIZED WITH AUTSLIC20, AUTSLIC35 AND AUTSLIC40 SEARCH UNITS AND FOUND ALLOWABLE IN ACCORDANCE WITH IWB-3510-1. SEE CNF BGE002. D70187-2/D70389-1.

Exam Results

99VE003 Accept

001010	9-203	MIDDLE TO LOWER SHELL	
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Exam Results

99VE002 Accept



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**EXAM CATEGORY / ITEM NUMBER: B-A / B1.12**

**RPV LONG WELDS**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
001170	3-203B	LOWER SHELL AT 210 DEG.	
<u>Exam Results</u>	99VE011	Accept	
001180	3-203C	LOWER SHELL AT 330 DEG.	
<u>Exam Results</u>	99VE012	Accept	
001160	3-203A	LOWER SHELL AT 90 DEG.	LIMITED EXAM DUE TO PROXIMITY OF SURVEILLANCE SPECIMEN TUBES. ONE AUTSLIC40 INDICATION WAS SIZED WITH AUTSLIC30 AND AUTSLIC40 SEARCH UNITS AND FOUND ALLOWABLE IN ACCORDANCE WITH IWB-3510-1. SEE CNF BGE006. D70187-2/D70389-1.
<u>Exam Results</u>	99VE010	Accept	
001140	2-203B	MIDDLE SHELL AT 150 DEG.	
<u>Exam Results</u>	99VE008	Accept	
001150	2-203C	MIDDLE SHELL AT 270 DEG.	ONE AUTSLIC40 INDICATION WAS SIZED WITH AUTSLIC30 AND AUTSLIC40 SEARCH UNITS AND FOUND ALLOWABLE IN ACCORDANCE WITH IWB-3510-1. SEE CNF005. D70187-2/D70389-1.
<u>Exam Results</u>	99VE009	Accept	
001130	2-203A	MIDDLE SHELL AT 30 DEG.	TWO AUTSLIC40 INDICATIONS WERE SIZED WITH AUTSLIC35 AND AUTSLIC40 SEARCH UNITS AND FOUND ALLOWABLE IN ACCORDANCE WITH IWB-3510-1. SEE CNF BGE004. D70187-2/D70389-1.
<u>Exam Results</u>	99VE007	Accept	
001110	1-203B	UPPER SHELL AT 210 DEG.	ONE AUTSLIC40 INDICATION WAS SIZED WITH AUTSLIC20 AND AUTSLIC35 SEARCH UNITS AND FOUND ALLOWABLE IN ACCORDANCE WITH IWB-3510-1. SEE CNF BGE003. D70187-2/D70389-1.
<u>Exam Results</u>	99VE005	Accept	
120	1-203C	UPPER SHELL AT 330 DEG.	
<u>Exam Results</u>	99VE006	Accept	



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001100            1-203A            UPPER SHELL AT 90 DEG.  
Exam Results  
                    99VE004            Accept

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**EXAM CATEGORY / ITEM NUMBER:    B-A / B1.21**

**RPV CIRC HEAD WELDS**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
001190	4-204	LOWER HEAD DOME WELD	
<u>Exam Results</u>			
	99VE013	Accept	

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**EXAM CATEGORY / ITEM NUMBER:    B-A / B1.22**

**RPV MERIDIONAL WELDS**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
1210	1-204A	LOWER HEAD AT 30 DEG.	LIMITED TRANSVERSE AND PARRALLEL EXAMS DUE TO PROXIMITY OF FLOW SKIRT.
<u>Exam Results</u>			
	99VE014	Accept	

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**EXAM CATEGORY / ITEM NUMBER:    B-A / B1.30**

**RPV SHELL TO FLANGE WELD**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
001270	7-203	FLANGE TO UPPER SHELL	LIMITED TRANSVERSE EXAM DUE TO THE INSIDE SURFACE TAPER.
<u>Exam Results</u>			
	99VE015	Accept	

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EXAM CATEGORY / ITEM NUMBER: B-D / B3.100

RPV NOZZLE IRS

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
101300	4-205B-IRS	INLET NOZZLE AT 120 DEG.	
<u>Exam Results</u>	99VE025	Accept	
101310	4-205C-IRS	INLET NOZZLE AT 240 DEG.	
<u>Exam Results</u>	99VE026	Accept	
101320	4-205D-IRS	INLET NOZZLE AT 300 DEG.	
<u>Exam Results</u>	99VE027	Accept	
1290	4-205A-IRS	INLET NOZZLE AT 60 DEG.	
<u>Exam Results</u>	99VE024	Accept	
101270	10-205A-IRS	OUTLET NOZZLE AT 0 DEG.	
<u>Exam Results</u>	99VE022	Accept	
101280	10-205B-IRS	OUTLET NOZZLE AT 180 DEG.	
<u>Exam Results</u>	99VE023	Accept	





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**EXAM CATEGORY / ITEM NUMBER: B-D / B3.90**

**RPV NOZZLE TO SHELL WELDS**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
101240	4-205B	INLET NOZZLE AT 120 DEG.	LIMITED EXAM DUE TO NOZZLE INNER RADIUS.
<u>Exam Results</u>			
	99VE019	Accept	
101250	4-205C	INLET NOZZLE AT 240 DEG.	TRANSVERSE EXAM LIMITED DUE TO NOZZLE INNER RADIUS.
<u>Exam Results</u>			
	99VE020	Accept	
101260	4-205D	INLET NOZZLE AT 300 DEG.	LIMITED TRANSVERSE EXAM DUE TO PROXIMITY OF NOZZLE INNER RADIUS.
<u>Exam Results</u>			
	99VE021	Accept	
101230	4-205A	INLET NOZZLE AT 60 DEG.	LIMITED TRANSVERSE EXAM DUE TO PROXIMITY OF NOZZLE INNER RADIUS. ONE AUTSLIC40 INDICATION WAS SIZED WITH AUTSLIC20 AND AUTSLIC35 AND FOUND ALLOWABLE IN ACCORDANCE WITH IWB-3512-1. SEE CNF BGE007. D70187-2/D70389-1/CC-39.
<u>Exam Results</u>			
	99VE018	Accept	
101210	10-205A	OUTLET NOZZLE AT 0 DEG.	LIMITED TRANSVERS EXAM DUE TO THE INTEGRAL EXTENSION.
<u>Exam Results</u>			
	99VE016	Accept	
101220	10-205B	OUTLET NOZZLE AT 180 DEG.	LIMITED TRANSVERSE EXAM DUE TO THE INTEGRAL EXTENSION.
<u>Exam Results</u>			
	99VE017	Accept	

**EXAM CATEGORY / ITEM NUMBER: B-E / B4.12**

**PARTIAL PENETRATION WELDS**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
101610	CRD NOZZLES	CONTROL ROD DRIVE NOZZLES	
<u>Exam Results</u>			
	99BV386	Accept	



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 3/3/2

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**EXAM CATEGORY / ITEM NUMBER: B-E / B4.13**

**PARTIAL PENETRATION WELDS**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
101620	INSTRUMENT NOZZLES	INSTUMENTATION NOZZLES	
<u>Exam Results</u>			
	99BV387	Accept	

**EXAM CATEGORY / ITEM NUMBER: B-G-1 / B6.180**

**RCP-21A**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
162220	21A-S-1-16	RCP-21A STUDS	
<u>Exam Results</u>			
	99BU011	Accept	

**JP-22A**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
162620	22A-S-1-16	RCP-22A STUDS	
<u>Exam Results</u>			
	99BU012	Accept	

**RCP-22B**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
162820	22B-S-1-16	RCP-22B STUDS	
<u>Exam Results</u>			
	99BU013	Accept	

**REACTOR COOLANT PUMP**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
162420	21B-S-1-16	RCP-21B STUDS	
<u>Exam Results</u>			
	99BU003	Accept	



**ATTACHMENT 1**  
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 3/32

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 6. National Board Number for Unit: 20912

**EXAM CATEGORY / ITEM NUMBER: B-G-1 / B6.190**

**REACTOR COOLANT PUMP**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
162425	RCP-21B	RCP-21B FLANGE SURFACE	
<u>Exam Results</u>			
	99BV137	Accept	

**REACTOR COOLANT PUMPS**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
162825	RCP-22B	RCP-22B FLANGE SURFACE	
<u>Exam Results</u>			
	99BV138	Accept	

**EXAM CATEGORY / ITEM NUMBER: B-G-1 / B6.200**

**JP-21A**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
162230	21A-N-1-16	RCP-21A NUTS	
<u>Exam Results</u>			
	99BV349	Accept	

**EXAM CATEGORY / ITEM NUMBER: B-G-1 / B6.40**

**RPV THREADS IN FLANGE**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
101335	54 FLANGE THREADS	FLANGE THREADS	
<u>Exam Results</u>			
	99VE028	Accept	

**EXAM CATEGORY / ITEM NUMBER: B-G-2 / B7.50**

**2.5-SR-2007**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
164945	2FB	INLET FLANGE BOLTING @ 2-RV-200	
<u>Exam Results</u>			
	99BV391	Accept	

**2.5-SR-2008**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
1955	2FB	INLET FLANGE BOLTING @ 2-RV-201	
<u>Exam Results</u>			
	99BV392	Accept	



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**EXAM CATEGORY / ITEM NUMBER: B-G-2 / B7.60**

RCP-21A

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
162250	21A-C-1-16	RCP-21A SEAL BOLTING	
<u>Exam Results</u>	99BV348	Accept	

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**EXAM CATEGORY / ITEM NUMBER: B-J / B9.11**

**30-RC-21A**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
109440	12	ELBOW TO TRANSITION PIECE	UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.

Exam Results

99VE045      Accept

109450	13	TRANSITION PIECE TO NOZZL	UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.
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Exam Results

99VE046      Accept

**30-RC-21B**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
J430	12	ELBOW TO TRANSITION PIECE	UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.

Exam Results

99VE049      Accept

110440	13	TRANSITION PIECE TO NOZZL	UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.
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Exam Results

99VE050      Accept

**30-RC-22A**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
111420	12	ELBOW TO TRANSITION PIECE	UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.

Exam Results

99VE053      Accept

111430	13	TRANSITION PIECE TO NOZZL	UT PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.
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Exam Results

99VE054      Accept

**30-RC-22B**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
112430	12	ELBOW TO TRANSITION PIECE	UT PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.

Exam Results

99VE059      Accept

112440	13	TRANSITION PIECE TO NOZZL	UT EXAM PERFORMED IN LIEU OF MT
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Exam Results



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99VE060 Accept

42-RC-21

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
107020	2	TRANSITION PIECE TO PIPE	UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.

Exam Results

99VE036 Accept

42-RC-22

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
108010	1	NOZZLE TO TRANSITION PIECE	UT EXAM PERFORMED IN LIEU OF MT

Exam Results

99VE039 Accept

1020	2	TRANSITION PIECE TO PIPE	UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.
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Exam Results

99VE040 Accept

REACTOR COOLANT - 42-RC-21

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
107010	1	NOZZLE TO TRANSITION PIECE	UT EXAM PERFORMED IN LIEU OF MT

Exam Results

99VE035 Accept

SAFETY INJECTION

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
116130	7	PIPE TO VALVE 2-SI-227	Examination requested by Mechanical Design.

Exam Results

99BU038 Accept

118060	7	PIPE TO VALVE 2-SI-247	Examination requested by Mechanical Design.
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Exam Results

99BU028 Accept

SAFETY INJECTION SYSTEM

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
116140	8	VALVE 2-SI-227 TO ELBOW	Examination requested by Mechanical Design.

Exam Results

99BU027 Accept

118070	8	VALVE 2-SI-247 TO ELBOW	Examination requested by Mechanical Design.
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Exam Results

99BU029 Accept



ATTACHMENT 1

Inservice Inspection Report  
3/3/2

1. Owner:	<u>Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203</u>
2. Plant:	<u>Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702</u>
3. Plant Unit:	<u>2</u>
4. Owner Certificate of Authorization( If Req.)	<u>N/A</u>
5. Commercial Service Date:	<u>04/01/1977</u>
6. National Board Number for Unit:	<u>20912</u>

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ATTACHMENT 1

Inservice Inspection Report  
3/3/2

- 1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203
- 2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702
- 3. Plant Unit: 2
- 4. Owner Certificate of Authorization( If Req.) N/A
- 5. Commercial Service Date: 04/01/1977
- 6. National Board Number for Unit: 20912

EXAM CATEGORY / ITEM NUMBER: B-J / B9.12

30-RC-21A

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
109420	12LU-1	LONGITUDINAL SEAM	UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.

Exam Results

99VE043 Accept

109430	12LU-2	LONGITUDINAL SEAM	UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.
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Exam Results

99VE044 Accept

30-RC-21B

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
J410	12LU-1	LONGITUDINAL SEAM	UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.

Exam Results

99VE047 Accept

110420	12LU-2	LONGITUDINAL SEAM	UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.
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Exam Results

99VE048 Accept

30-RC-22A

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
111400	12LU-1	LONGITUDINAL SEAM	UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.

Exam Results

99VE051 Accept

111410	12LU-2	LONGITUDINAL SEAM	UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.
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Exam Results

99VE052 Accept

30-RC-22B

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
112410	12LU-1	LONGITUDINAL SEAM	UT PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.

Exam Results

99VE055 Accept





ATTACHMENT 1

Inservice Inspection Report  
3/3/2

1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203  
 2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702  
 3. Plant Unit: 2  
 4. Owner Certificate of Authorization( If Req.) N/A  
 5. Commercial Service Date: 04/01/1977  
 6. National Board Number for Unit: 20912

112420      12LU-2      LONGITUDINAL SEAM      UT PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.

Exam Results

99VE056      Accept

42-RC-21

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
107030	2LD-1	LONGITUDINAL SEAM	UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.

Exam Results

99VE037      Accept

107040      2LD-2      LONGITUDINAL SEAM      UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.

Exam Results

99VE038      Accept

42-RC-22

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
108030	2LD-1	LONGITUDINAL SEAM	UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.

Exam Results

99VE041      Accept

108040      2LD-2      LONGITUDINAL SEAM      UT WAS PERFORMED IN LIEU OF MT AS ALLOWED BY NRC RELIEF REQUEST.

Exam Results

99VE042      Accept

REACTOR COOLANT SYSTEM - 30-RC-21B

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
110330	10LD-2	LONGITUDINAL SEAM	

Exam Results

99BU019      Accept  
 99BM022      Accept



ATTACHMENT 1

Inservice Inspection Report  
3/3/2

- 1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203
- 2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702
- 3. Plant Unit: 2
- 4. Owner Certificate of Authorization( If Req.) N/A
- 5. Commercial Service Date: 04/01/1977
- 6. National Board Number for Unit: 20912

**EXAM CATEGORY / ITEM NUMBER: B-J / B9.21**

2-CV-2018

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
155220	18	PIPE TO PIPE	
<u>Exam Results</u>			
	99BP021	Accept	

2-LD-2004

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
161320	14	TEE TO PIPE	
<u>Exam Results</u>			
	99BP171	Accept	

PS-2002

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
138080	7	ELBOW TO PIPE	
<u>Exam Results</u>			
	99BP012	Accept	

**EXAM CATEGORY / ITEM NUMBER: B-L-1 / B12.10**

RCP-21B

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
162400	21B	RCP-21B PUMP CASING WELDS	
<u>Exam Results</u>			
	99BP037	Accept	
	99BV114	Reject	
Evaluation Disposition: Acceptable			

RCP-22A

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
162600	22A	RCP-22A PUMP CASING WELDS	
<u>Exam Results</u>			
	99BP013	Accept	
	99BV013	Accept	

RCP-22B

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
2800	22B	RCP-22B PUMP CASING WELDS	
<u>Exam Results</u>			
	99BV012	Accept	
	99BP011	Accept	



ATTACHMENT 1

Inservice Inspection Report  
3/3/2

- 1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203
- 2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702
- 3. Plant Unit: 2
- 4. Owner Certificate of Authorization( If Req.) N/A
- 5. Commercial Service Date: 04/01/1977
- 6. National Board Number for Unit: 20912

**EXAM CATEGORY / ITEM NUMBER: B-L-2 / B12.20**

**REACTOR COOLANT PUMPS**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
162810	RCP-22B	PUMP CASING INTERNAL SURFACE	
<u>Exam Results</u>			
	99BV388	Accept	

**EXAM CATEGORY / ITEM NUMBER: B-N-1 / B13.10**

**INTERIOR SURFACES AND CORE SUPPORT STRUCTURES**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
101340	VESSEL INTERIOR	VESSEL INTERIOR	
<u>Exam Results</u>			
	99VE061	Accept	

**EXAM CATEGORY / ITEM NUMBER: B-N-2 / B13.50**

**INTERIOR SURFACES AND CORE SUPPORT STRUCTURES**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
101345	INTERIOR ATTACHMENTS	WITHIN BELTLINE REGION	
<u>Exam Results</u>			
	99VE030	Accept	

**EXAM CATEGORY / ITEM NUMBER: B-N-2 / B13.60**

**INTERIOR SURFACES AND CORE SUPPORT STRUCTURES**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
101350	INTERIOR ATTACHMENTS	BEYOND BELTLINE REGION	
<u>Exam Results</u>			
	99VE031	Accept	

**EXAM CATEGORY / ITEM NUMBER: B-N-3 / B13.70**

**INTERIOR SURFACES AND CORE SUPPORT STRUCTURES**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
101360	CORE SUPPORT STRUCT	CORE SUPPORT STRUCTURE	
<u>Exam Results</u>			
	99VE032	Accept	



**ATTACHMENT 1**  
**Inservice Inspection Report**  
3/3/2

1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203  
2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702  
3. Plant Unit: 2  
4. Owner Certificate of Authorization( If Req.) N/A  
5. Commercial Service Date: 04/01/1977  
6. National Board Number for Unit: 20912

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**EXAM CATEGORY / ITEM NUMBER: B-O / B14.10**

**CRD- REACTOR PRESSURE VESSEL**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
102180	CRD HOUSINGS	PEREPHERAL CRD HOUSING	EXAMINED CRDs IN ACCORDANCE WITH ISI RELIEF REQUEST #3.

Exam Results

99BP022      Accept

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**EXAM CATEGORY / ITEM NUMBER: B-P / B15.11**

**REACTOR VESSEL PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
165010	RV-HT-1	HYDROSTATIC TEST	

Exam Results

99BV339      Accept

---

**EXAM CATEGORY / ITEM NUMBER: B-P / B15.31**

**STEAM GENERATOR PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
165050	SG-HT-1	HYDROSTATIC TEST	

Exam Results

99BV343      Accept

---

**EXAM CATEGORY / ITEM NUMBER: B-P / B15.41**

**HEAT EXCHANGER PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
165070	HX-HT-1	HYDROSTATIC TEST	

Exam Results

99BV344      Accept

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**EXAM CATEGORY / ITEM NUMBER: B-P / B15.51**

**PIPING PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
165090	PP-HT-1	HYDROSTATIC TEST	

Exam Results

99BV345      Accept

---



ATTACHMENT 1

Inservice Inspection Report  
3/3/2

- 1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203
- 2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702
- 3. Plant Unit: 2
- 4. Owner Certificate of Authorization( If Req.) N/A
- 5. Commercial Service Date: 04/01/1977
- 6. National Board Number for Unit: 20912

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**EXAM CATEGORY / ITEM NUMBER: B-P / B15.61**

**PUMP PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
165110	PMP-HT-1	HYDROSTATIC TEST	
<u>Exam Results</u>			
99BV346	Accept		

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**EXAM CATEGORY / ITEM NUMBER: B-P / B15.71**

**PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
165130	VLV-HT-1	HYDROSTATIC TEST	
<u>Exam Results</u>			
99BV347	Accept		

---

**EXAM CATEGORY / ITEM NUMBER: C-A / C1.10**

**REGENERATIVE HEAT EXCHANGER**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
202800	RHE-16	TEE TO SHELL	COVERAGE LIMITED DUE TO CONFIGURATION.
<u>Exam Results</u>			
99BU041	Accept		

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**EXAM CATEGORY / ITEM NUMBER: C-A / C1.20**

**REGENERATIVE HEAT EXCHANGER**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
202750	RHE-15	TEE TO CAP	END CAP WELD LIMITED DUE TO CONFIGURATION.
<u>Exam Results</u>			
99BU040	Accept		

---

**EXAM CATEGORY / ITEM NUMBER: C-A / C1.30**

**REGENERATIVE HEAT EXCHANGER**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
203200	RHE-23	TUBE SHEET TO REDUCER	COVERAGE LIMITED DUE TO REDUCER CONFIGURATION ON DOWNSTREAM SIDE.
<u>Exam Results</u>			
99BU039	Accept		

---



**ATTACHMENT 1**  
**Inservice Inspection Report**  
3/3/2

- 1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203
- 2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702
- 3. Plant Unit: 2
- 4. Owner Certificate of Authorization ( If Req.) N/A
- 5. Commercial Service Date: 04/01/1977
- 6. National Board Number for Unit: 20912

**EXAM CATEGORY / ITEM NUMBER: C-C / C3.20**

14-SC-2003

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
272950	R-6X	INTEGRAL ATTACHMENT	Limited exam due to configuration and interference.
<u>Exam Results</u>			
	99BP207	Accept	

16-FW-2018

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
291700	H-1	INTEGRAL ATTACHMENT	UT WAS PERFORMED TO SUPPLEMENT SURFACE EXAM FOR COVERAGE.
<u>Exam Results</u>			
	99BM015	Accept	

**IN STEAM SYSTEM**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
287750	H-8	INTEGRALLY WELDED ATTACHMENT	
<u>Exam Results</u>			
	99BU015	Accept	
288750	H-5	INTEGRALLY WELDED ATTACHMENT	Limited due to configuration.
<u>Exam Results</u>			
	99BU016	Accept	

**SAFETY INJECTION SYSTEM**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
216250	R-18	INTEGRALLY WELDED ATTACHM	
<u>Exam Results</u>			
	99BU053	Accept	
216450	R-14	INTEGRALLY WELDED ATTACHM	Limited due to pipe clamp configuration.
<u>Exam Results</u>			
	99BU054	Accept	
217250	R-19	INTEGRALLY WELDED ATTACHM	UT was performed to supplement surface exam.
<u>Exam Results</u>			
	99BU061	Accept	
223400	H-18	INTEGRALLY WELDED ATTACHM	UT to supplement surface exam.
<u>Exam Results</u>			
	99BU059	Accept	
231000	H-3	INTEGRALLY WELDED ATTACHM	UT to supplement surface exam.
<u>Exam Results</u>			
	99BU064	Accept	



**ATTACHMENT 1**  
**Inservice Inspection Report**  
 3/3/2

1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD, 21203  
 2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702  
 3. Plant Unit: 2  
 4. Owner Certificate of Authorization( If Req.) N/A  
 5. Commercial Service Date: 04/01/1977  
 6. National Board Number for Unit: 20912

99BU065      Accept

237125      H-6      INTEGRALLY WELDED ATTACHM

Exam Results

99BU052      Accept

239625      H-13      INTEGRALLY WELDED ATTACHM

UT WAS PERFORMED TO SUPPLEMENT PT TO  
 ATTEMPT TO ACHIEVE GREATER COVERAGE.

Exam Results

99BU051      Accept

245375      H-12, R-10      INTEGRALLY WELDED ATTACHM

Exam Results

99BU057      Accept

246025      H-9, R-7      INTEGRALLY WELDED ATTACHM

Exam Results

99BU060      Accept

246575      H-1, R-1      INTEGRALLY WELDED ATTACHM

Exam Results

99BU056      Accept

**EXAM CATEGORY / ITEM NUMBER:      C-F-1 / C5.30**

2-SI-2035

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
256300	3	ELBOW TO PIPE	

Exam Results

99BP206      Accept

256250      2      PIPE TO ELBOW

Exam Results

99BP205      Accept

**EXAM CATEGORY / ITEM NUMBER:      C-H / C7.10**

**PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
293950	PV-SLT-1	SYSTEM LEAKAGE TEST	

Exam Results

99BV351      Accept



ATTACHMENT 1

Inservice Inspection Report  
3/3/2

- 1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203
- 2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702
- 3. Plant Unit: 2
- 4. Owner Certificate of Authorization( If Req.) N/A
- 5. Commercial Service Date: 04/01/1977
- 6. National Board Number for Unit: 20912

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**EXAM CATEGORY / ITEM NUMBER: C-H / C7.30**

**PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
294050	PP-SLT-1	SYSTEM LEAKAGE TEST	
<u>Exam Results</u>			
	99BV352	Accept	

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**EXAM CATEGORY / ITEM NUMBER: C-H / C7.50**

**PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
294150	PMP-SLT-1	SYSTEM LEAKAGE TEST	
<u>Exam Results</u>			
	99BV353	Accept	

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**EXAM CATEGORY / ITEM NUMBER: C-H / C7.70**

**PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
294250	VLV-SLT-1	SYSTEM LEAKAGE TEST	
<u>Exam Results</u>			
	99BV354	Accept	

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ATTACHMENT 1

Inservice Inspection Report  
3/3/2

- 1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD, 21203
- 2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702
- 3. Plant Unit: 2
- 4. Owner Certificate of Authorization( If Req.) N/A
- 5. Commercial Service Date: 04/01/1977
- 6. National Board Number for Unit: 20912

**EXAM CATEGORY / ITEM NUMBER: E-A / E1.12**

**CONTAINMENT INTERIOR SURFACE**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
B10800	B10800	INTERIOR LINER	COATING WAS RE-EXAMINED AFTER COATING REPAIR AND FOUND ACCEPTABLE.
<u>Exam Results</u>			
	99BV215	Reject	
	99BV255	Accept	
B11700	B11700	INTERIOR LINER	EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION REQUIRED.
<u>Exam Results</u>			
	99BV233	Reject	
	99BV222	Accept	
B12000	B12000	INTERIOR LINER	EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION REQUIRED.
<u>Exam Results</u>			
	99BV234	Reject	
	99BV223	Accept	
B12100	B12100	INTERIOR LINER	EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION REQUIRED.
<u>Exam Results</u>			
	99BV224	Accept	
	99BV235	Reject	
B12300	B12300	INTERIOR LINER	EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION REQUIRED.
<u>Exam Results</u>			
	99BV225	Accept	
	99BV236	Reject	
B12600	B12600	INTERIOR LINER	EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION REQUIRED.
<u>Exam Results</u>			



ATTACHMENT 1

Inservice Inspection Report  
3/3/2

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- 4. Owner Certificate of Authorization( If Req.) N/A
- 5. Commercial Service Date: 04/01/1977
- 6. National Board Number for Unit: 20912

	99BV237	Reject		
	99BV226	Accept		
B12700	B12700		INTERIOR LINER	EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION REQUIRED.
<u>Exam Results</u>	99BV238	Reject		
	99BV227	Accept		
B13300	B13300		INTERIOR LINER	EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION REQUIRED.
<u>Exam Results</u>	99BV239	Reject		
	99BV228	Accept		
B13400	B13400		INTERIOR LINER	AREA WAS REEXAMINED AND FOUND ACCEPTABLE AFTER COATING REPAIR.
<u>Exam Results</u>	99BV240	Reject		
	99BV288	Accept		
B13500	B13500		INTERIOR LINER	EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION REQUIRED.
<u>Exam Results</u>	99BV229	Accept		
	99BV241	Reject		
B13600	B13600		INTERIOR LINER	EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION REQUIRED.
<u>Exam Results</u>	99BV221	Accept		
	99BV242	Reject		
B13800	B13800		INTERIOR LINER	AREA WAS REEXAMINED AND FOUND ACCEPTABLE AFTER COATING REPAIR.
<u>Exam Results</u>	99BV297	Accept		
	99BV243	Reject		



ATTACHMENT 1

Inservice Inspection Report  
3/3/2

- 1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203
- 2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702
- 3. Plant Unit: 2
- 4. Owner Certificate of Authorization( If Req.) N/A
- 5. Commercial Service Date: 04/01/1977
- 6. National Board Number for Unit: 20912

B14700	B14700	INTERIOR LINER	EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION REQUIRED.
<u>Exam Results</u>			
	99BV230	Accept	
	99BV244	Reject	
B16400	B16400	INTERIOR LINER	EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION REQUIRED.
<u>Exam Results</u>			
	99BV231	Accept	
	99BV245	Reject	
B16800	B16800	INTERIOR LINER	EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION REQUIRED.
<u>Exam Results</u>			
	99BV232	Accept	
	99BV246	Reject	
B17600	B17600	INTERIOR LINER	AREA WAS REEXAMINED AND FOUND ACCEPTABLE AFTER COATING REPAIR.
<u>Exam Results</u>			
	99BV247	Reject	
	99BV289	Accept	
B18200	B18200	INTERIOR LINER	AREA WAS REEXAMINED AND FOUND ACCEPTABLE AFTER COATING REPAIR.
<u>Exam Results</u>			
	99BV248	Reject	
	99BV290	Accept	
B18500	B18500	INTERIOR LINER	AREA WAS REEXAMINED AND FOUND ACCEPTABLE AFTER COATING REPAIR.
<u>Exam Results</u>			
	99BV249	Reject	
	99BV291	Accept	
9600	B18600	INTERIOR LINER	AREA WAS REEXAMINED AND FOUND ACCEPTABLE AFTER COATING REPAIR.
<u>Exam Results</u>			
	99BV292	Accept	
	99BV250	Reject	



ATTACHMENT 1

Inservice Inspection Report  
3/3/2

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B19000	B19000	INTERIOR LINER	AREA WAS REEXAMINED AND FOUND ACCEPTABLE AFTER COATING REPAIR.
<u>Exam Results</u>			
	99BV294	Accept	
	99BV252	Reject	

B19300	B19300	INTERIOR LINER	AREA WAS REEXAMINED AND FOUND ACCEPTABLE AFTER COATING REPAIR.
<u>Exam Results</u>			
	99BV295	Accept	
	99BV253	Reject	

B19400	B19400	INTERIOR LINER	AREA WAS REEXAMINED AND FOUND ACCEPTABLE AFTER COATING REPAIR.
<u>Exam Results</u>			
	99BV296	Accept	
	99BV254	Reject	

CONTAINMENT SURFACE

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
B10105	LC-4 TO LC-5	LEAK CHASE CHANNEL	CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533.
<u>Exam Results</u>			
	99BV151	Accept	
	99BV015	Reject	
	Evaluation Disposition: Acceptable		

B10110	LC-5 TO LC-6	LEAK CHASE CHANNEL	CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.
<u>Exam Results</u>			
	99BV016	Reject	
	99BV152	Accept	

CONTAINMENT SURFACES

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
B10115	LC-6 TO LC-7	LEAK CHASE CHANNEL	CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.
<u>Exam Results</u>			
	99BV017	Reject	
	99BV153	Accept	



**ATTACHMENT 1**  
**Inservice Inspection Report**  
3/3/2

1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203  
2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702  
3. Plant Unit: 2  
4. Owner Certificate of Authorization( If Req.) N/A  
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6. National Board Number for Unit: 20912

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<b>B10120</b>	<b>LC-7 TO LC-8</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV018	Reject
99BV154	Accept

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<b>B10125</b>	<b>LC-8 TO LC-9</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV019	Reject
99BV155	Accept

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<b>B10130</b>	<b>LC-9 TO LC-10</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533 AND IR3-022-546. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV020	Reject
99BV156	Accept

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<b>B10135</b>	<b>LC-10 TO LC-11</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV021	Reject
99BV158	Accept

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<b>B10140</b>	<b>LC-11 TO LC-12</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV159	Accept
99BV022	Reject

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<b>B10145</b>	<b>LC-12 TO LC-13</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV160	Accept
99BV023	Reject

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**ATTACHMENT 1**  
**Inservice Inspection Report**  
3/3/2

1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203  
2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702  
3. Plant Unit: 2  
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6. National Board Number for Unit: 20912

---

<b>B10150</b>	<b>LC-13 TO LC-14</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533 AND IR3-022-546. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV024	Reject
99BV161	Accept

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<b>B10155</b>	<b>LC-14 TO LC-15</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV025	Reject
99BV162	Accept

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<b>B10205</b>	<b>LC-15 TO LC-16</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV163	Accept
99BV026	Reject

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<b>B10210</b>	<b>LC-16 TO LC-17</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV164	Accept
99BV027	Reject

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<b>B10215</b>	<b>LC-17 TO LC-18</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV028	Reject
99BV166	Accept

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<b>B10220</b>	<b>LC-18 TO LC-19</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV029	Reject
99BV167	Accept

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ATTACHMENT 1

Inservice Inspection Report  
3/3/2

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B10225            LC-19 TO LC-20            LEAK CHASE CHANNEL            CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.

Exam Results

99BV030        Reject  
99BV168        Accept

B10230            LC-20 TO LC-21            LEAK CHASE CHANNEL            CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.

Exam Results

99BV170        Accept  
99BV031        Reject

B10235            LC-21 TO LC-22            LEAK CHASE CHANNEL            CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.

Exam Results

99BV173        Accept  
99BV032        Reject

B10240            LC-22 TO LC-23            LEAK CHASE CHANNEL            CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.

Exam Results

99BV033        Reject  
99BV174        Accept

B10245            LC-23 TO LC-24            LEAK CHASE CHANNEL            CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.

Exam Results

99BV176        Accept  
99BV034        Reject

B10250            LC-24 TO LC-25            LEAK CHASE CHANNEL            CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.

Exam Results

99BV179        Accept  
99BV035        Reject



**ATTACHMENT 1**  
**Inservice Inspection Report**  
3/3/2

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B10255	LC-25 TO LC-26	LEAK CHASE CHANNEL	CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.
<u>Exam Results</u>			
	99BV182	Accept	
	99BV036	Reject	
B10260	LC-26 TO LC-27	LEAK CHASE CHANNEL	CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.
<u>Exam Results</u>			
	99BV037	Reject	
	99BV185	Accept	
B10265	LC-27 TO LC-28	LEAK CHASE CHANNEL	CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.
<u>Exam Results</u>			
	99BV038	Reject	
	99BV187	Accept	
B10270	LC-28 TO LC-29	LEAK CHASE CHANNEL	CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.
<u>Exam Results</u>			
	99BV188	Accept	
	99BV039	Reject	
B10305	LC-29 TO LC-30	LEAK CHASE CHANNEL	AREA WAS ACCEPTED AS-IS BY DESIGN ENGINEERING VIA ES199900382. CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533.
<u>Exam Results</u>			
	99BV189	Accept	
	99BV061	Reject	
B10310	LC-30 TO LC-31	LEAK CHASE CHANNEL	AREA WAS ACCEPTED AS-IS BY DESIGN ENGINEERING VIA ES199900382. CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533.
<u>Exam Results</u>			
	99BV040	Reject	
	99BV190	Accept	
B1315	LC-31 TO LC-32	LEAK CHASE CHANNEL	CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.

Exam Results





**ATTACHMENT 1**  
**Inservice Inspection Report**  
3/3/2

1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203  
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3. Plant Unit: 2  
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99BV041     Reject  
99BV191     Accept

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**B10320            LC-32 TO LC-33            LEAK CHASE CHANNEL            CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.**

Exam Results

99BV042     Reject  
99BV192     Accept

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**B10325            LC-33 TO LC-34            LEAK CHASE CHANNEL            CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.**

Exam Results

99BV193     Accept  
99BV043     Reject

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**B10330            LC-34 TO LC-35            LEAK CHASE CHANNEL            CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533 AND IR3-022-546. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.**

Exam Results

99BV196     Accept  
99BV044     Reject

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**B10335            LC-35 TO LC-36            LEAK CHASE CHANNEL            CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.**

Exam Results

99BV045     Reject  
99BV197     Accept

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**B10340            LC-36 TO LC-37            LEAK CHASE CHANNEL            CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.**

Exam Results

99BV046     Reject  
99BV198     Accept

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**B10345            LC-37 TO LC-38            LEAK CHASE CHANNEL            CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.**

Exam Results

99BV047     Reject  
99BV199     Accept

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**ATTACHMENT 1**  
**Inservice Inspection Report**  
3/3/2

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2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702  
3. Plant Unit: 2  
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5. Commercial Service Date: 04/01/1977  
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<b>B10350</b>	<b>LC-38 TO LC-39</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV200	Accept
99BV048	Reject

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<b>B10355</b>	<b>LC-39 TO LC-40</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV201	Accept
99BV049	Reject

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<b>B10360</b>	<b>LC-40 TO LC-41</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV202	Accept
99BV050	Reject

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<b>B10405</b>	<b>LC-41 TO LC-42</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV203	Accept
99BV051	Reject

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<b>B10410</b>	<b>LC-42 TO LC-43</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV052	Reject
99BV204	Accept

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<b>B10415</b>	<b>LC-43 TO LC-44</b>	<b>LEAK CHASE CHANNEL</b>	<b>CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.</b>
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Exam Results

99BV053	Reject
99BV205	Accept

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ATTACHMENT 1

Inservice Inspection Report  
3/3/2

- 1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203
- 2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702
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- 5. Commercial Service Date: 04/01/1977
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B10420 LC-44 TO LC-45 LEAK CHASE CHANNEL CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.

Exam Results

99BV054 Reject  
99BV206 Accept

B10425 LC-45 TO LC-46 LEAK CHASE CHANNEL CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.

Exam Results

99BV062 Reject  
99BV207 Accept

B10430 LC-46 TO LC-47 LEAK CHASE CHANNEL CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.

Exam Results

99BV208 Accept  
99BV055 Reject

B10435 LC-47 TO LC-48 LEAK CHASE CHANNEL CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.

Exam Results

99BV056 Reject  
99BV209 Accept

B10440 LC-48 TO LC-1 LEAK CHASE CHANNEL CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.

Exam Results

99BV057 Reject  
99BV210 Accept

B10445 LC-1 TO LC-2 LEAK CHASE CHANNEL AREA WAS ACCEPTED AS-IS BY DESIGN ENGINEERING VIA ES199900382. CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533.

Exam Results

99BV058 Reject  
99BV211 Accept

B10450 LC-2 TO LC-3 LEAK CHASE CHANNEL CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.

Exam Results



ATTACHMENT 1

Inservice Inspection Report  
3/3/2

- 1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203
- 2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702
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- 4. Owner Certificate of Authorization( If Req.) N/A
- 5. Commercial Service Date: 04/01/1977
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99BV059     Reject  
 99BV212     Accept

B10455            LC-3 TO LC-4            LEAK CHASE CHANNEL            CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.

Exam Results

99BV060     Reject  
 99BV213     Accept

**CONTINMENT INTERIOR SURFACE**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
B18800	B18800	INTERIOR LINER	AREA WAS REEXAMINED AND FOUND ACCEPTABLE AFTER COATING REPAIR.

Exam Results

99BV293     Accept  
 99BV251     Reject

**EXAM CATEGORY / ITEM NUMBER:     E-D / E5.30**

**CONTAINMENT MOISTURE BARRIER**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
B10005	MB-1	MOISTURE BARRIER	PRESERVICE EXAMINATION OF NEW MOISTURE BARRIER IS ACCEPTABLE UNDER NDE REPORT 99BV150. CORRECTIVE ACTIONS BEING TRACKED UNDER IR3-022-533.

Exam Results

99BV150     Accept  
 99BV113     Reject

Evaluation Disposition: Acceptable

**EXAM CATEGORY / ITEM NUMBER:     E-G / E8.10**

**Containment**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
B10920	Penetration 13	Blind Flange Bolting	

Exam Results

99BV325     Accept

B11545            Penetration 14            Blind Flange Bolting

Exam Results

99BV326     Accept



ATTACHMENT 1

Inservice Inspection Report  
3/3/2

- 1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203
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- 4. Owner Certificate of Authorization( If Req.) N/A
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- 6. National Board Number for Unit: 20912

EXAM CATEGORY / ITEM NUMBER: N/A / ---

REACTOR COOLANT PUMPS

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
162840	PUMP MOTOR FLYWHEEL	FLYWHEEL #3S-77P108	

Exam Results

99BU047	Accept
99BU046	Accept
99BU048	Accept
99BU049	Accept
99BM111	Accept
99BU045	Accept

EXAM CATEGORY / ITEM NUMBER: RG1.14 / ---

P-21A

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
162240	21A	RCP-21A FLYWHEEL	

Exam Results

99BU004	Accept
---------	--------

**ENCLOSURE (2)**

**BALTIMORE GAS AND ELECTRIC COMPANY  
INSERVICE INSPECTION SUMMARY REPORT  
FOR CALVERT CLIFFS UNIT 2**

**ASME BOILER AND PRESSURE VESSEL CODE  
SECTION XI, FORM NIS-2**

MWO No.	RRNo.	UEI	Planner Dat	Section XI Cl	NIS-2 Wr	Review Dat
2199302533	94-2-026	2#GC5-2008	04/13/1999	Two	True	05/17/1999
2199503843	95-2-066	2#DC2-2002	11/09/1995	Two	True	03/31/1999
2199604119	96-2-075a	2PUMPRC21A(s)	12/09/1996	One	True	08/26/1998
2199604119	96-2-075b	2PUMPRC21A	12/09/1996	One	True	05/19/1999
2199702940	96-2-081	2CKVSI-247	12/09/1996	One	True	07/09/1999
2199505020	97-2-129	2#HC-7	06/17/1997	Two	True	07/22/1998
2199701412	97-2-130	2HVSI-400	06/18/1997	Two	True	10/09/1997
2199702802	97-2-132	2HVCVC-361	09/03/1997	Two	True	09/03/1997
2199705361	97-2-133	2HVSI-400	09/17/1997	Two	True	10/07/1998
2199800254	98-2-001	2CKVSI-414	01/26/1998	Two	True	04/29/1998
2199704055	98-2-004	2RV200	04/20/1998	One	True	06/07/1999
2199704057	98-2-005	2RV201	04/20/1998	One	True	05/26/1999
2199800340	98-2-011	2CV4013	04/14/1998	Two	True	06/15/1999
2199800339	98-2-013	2CV4011	04/16/1998	Two	True	06/01/1999
2199802320	98-2-094	2PZVRC21	08/04/1998	One	True	11/11/1998
2199703922	98-2-147	2CKVFW-133	09/09/1998	Two	True	06/09/1999
2199604869	98-2-165	Snubber 2-52-20A	01/12/1999	Two	True	04/12/1999
2199800573	98-2-166	Snubber 2-11-16A	01/12/1999	Two	True	03/18/1999
2199704491	98-2-169	Snubber 2-36-05	01/12/1999	Two	True	03/31/1999
2199800579	98-2-170	Snubber 2-45-01A	01/12/1999	Two	True	04/12/1999
2199800581	98-2-171	Snubber 2-52-05	01/12/1999	Two	True	04/12/1999
2199800582	98-2-172	Snubber 2-52-09	01/12/1999	Two	True	04/12/1999
2199800587	98-2-176	Snubber 2-52-20	01/12/1999	Two	True	04/12/1999
2199704515	98-2-178	Snubber 2-52-26	01/12/1999	Two	True	04/01/1999
2199800589	98-2-179	Snubber 2-52-34	01/12/1999	One	True	03/29/1999
2199800590	98-2-180	Snubber 2-52-38	01/12/1999	One	True	03/20/1999
2199800591	98-2-181	Snubber 2-52-43	01/13/1999	One	True	04/10/1999
2199800592	98-2-182	Snubber 2-52-44	01/13/1999	One	True	03/29/1999
2199704500	98-2-183	Snubber 2-52-46	01/13/1999	One	True	03/27/1999
2199704516	98-2-184	Snubber 2-52-50A	01/13/1999	One	True	03/27/1999
2199704507	98-2-185	Snubber 2-52-54	01/13/1999	One	True	03/27/1999
2199704506	98-2-189	Snubber 2-60-12	01/13/1999	Two	True	03/23/1999
2199800593	98-2-191	Snubber 2-61-03	01/13/1999	Two	True	04/01/1999
2199800595	98-2-192	Snubber 2-61-04	01/13/1999	Two	True	04/10/1999
2199704489	98-2-193	Snubber 2-63-02	01/13/1999	Two	True	03/29/1999
2199704437	98-2-194	Snubber 2-63-19	01/13/1999	Two	True	04/03/1999
2199704492	98-2-195	Snubber 2-63-24	01/13/1999	Two	True	04/03/1999
2199704497	98-2-196	Snubber 2-63-25	01/13/1999	Two	True	04/03/1999
2199800596	98-2-197	Snubber 2-63-26	01/13/1999	Two	True	03/31/1999
2199704508	98-2-198	Snubber 2-64-09	01/14/1999	One	True	04/10/1999
2199704505	98-2-199	Snubber 2-64-12	01/14/1999	One	True	04/09/1999
2199800597	98-2-200	Snubber 2-64-12A	01/14/1999	One	True	04/09/1999
2199704498	98-2-201	Snubber 2-64-15	01/14/1999	One	True	03/20/1999
2199704495	98-2-202	Snubber 2-64-18	01/14/1999	One	True	04/12/1999
2199704512	98-2-203	Snubber 2-64-19	01/14/1999	One	True	04/10/1999
2199800598	98-2-204	Snubber 2-64-25	01/14/1999	One	True	03/29/1999
2199704494	98-2-205	Snubber 2-64-26	01/14/1999	One	True	04/10/1999
2199704509	98-2-206	Snubber 2-64-27	01/14/1999	One	True	04/09/1999
2199704490	98-2-207	Snubber 2-64-28A	01/14/1999	One	True	04/10/1999
2199800599	98-2-208	Snubber 2-64-30	01/14/1999	One	True	03/20/1999
2199800600	98-2-209	Snubber 2-64-30A	01/14/1999	One	True	03/20/1999
2199704518	98-2-210	Snubber 2-64-38	01/14/1999	One	True	03/29/1999
2199704513	98-2-211	Snubber 2-83-34	01/14/1999	Two	True	04/10/1999

MWO No.	RRNo.	UEI	Planner Dat	Section XI Cl	NIS-2 Wr	Review Dat
2199704519	98-2-212	Snubber 2-64-43	01/14/1999	One	True	04/28/1999
2199704517	98-2-213	Snubber 2-83-33	01/14/1999	Two	True	04/10/1999
2199800633	98-2-214	Snubber 2-83-16A	01/14/1999	Two	True	04/16/1999
2199800602	98-2-215	Snubber 2-83-02A	01/14/1999	Two	True	04/14/1999
2199800603	98-2-216	Snubber 2-83-03	01/14/1999	Two	True	04/12/1999
2199800606	98-2-217	Snubber 2-83-04A	01/14/1999	Two	True	04/16/1999
2199800604	98-2-218	Snubber 2-83-15	01/14/1999	Two	True	03/19/1999
2199802432	98-2-252b	2CKVSI-330	04/03/1999	Two	True	06/08/1999
2199802433	98-2-253b	2CKVSI-340	04/03/1999	Two	True	05/25/1999
2199700924	98-2-254a	2PUMPRC21B(s)	11/05/1998	One	True	07/12/1999
2199700926	98-2-255a	2PUMPRC22B(s)	03/16/1999	One	True	07/14/1999
2199700926	98-2-255b	2PUMPRC22B	11/11/1998	One	True	07/13/1999
2199801841	98-2-275a	2CKVSI-434	12/18/1998	Two	True	07/09/1999
2199801841	98-2-275b	2#GC1-2003	12/18/1998	Two	True	07/09/1999
2199603215	98-2-276a	2CKVSI-446	12/18/1998	Two	True	07/09/1999
2199603215	98-2-276b	2#GC1-2002	12/18/1998	Two	True	07/09/1999
2199703971	99-2-012	2ERV402	03/20/1999	One	True	07/13/1999
2199403477	99-2-014	2CKVSI-227	03/02/1999	One	True	07/13/1999
2199900912	99-2-016	2#EB12-2007	03/20/1999	Two	True	05/17/1999
2199901038	99-2-025	2#CC4-2009-R9	04/03/1999	One	True	06/09/1999
2199705517	99-2-028	2CV3939	04/07/1999	Two	True	06/09/1999
2199802244	99-2-036	2PUMPSILPSI21	04/22/1999	Two	True	07/01/1999



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 05/17/1999  
 (name)  
G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
 (address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
 (name)  
1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 94-2-026, MWO No. 2199302533  
 (address) (P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
 (name) Authorization No.: N/A  
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, Md. 20657 Exp Date: N/A  
 (address) Section XI Class: Two

4. Identification of System: System Number 052 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class Two

(b) Applicable Sect XI Ed. for Repairs/Replacement: 1983 Edition, Summer 83 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping System	Bechtel	2"GCS-2008	N/A	2MOV399 Support/Restraint	1977	Replaced	No
Plate	Energy Steel & Supply Co.	80622-GX	N/A	Plate, Steel 1/2 in. ASME SA-36, Carbon Steel	1993	Replacement	No
Structural Shape	Energy Steel & Supply Co.	80622-GX	N/A	Angle, 3 in. X 3 in. X 1/4 in.; ASME SA-36, Carbon Steel	1993	Replacement	No
Nut	Allied Group	25058	N/A	Nut, Heavy Hex, 1/2 in. X 13 TPI, SA-194 Gr. 2H	1998	Replacement	No

7. Description of Work:

Modify 2MOV399 Support/Restraint in accordance with ES199800809-000.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: N/A psi. Test Temperature: N/A Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

## FORM NIS-2 (Back)

9. Remarks:

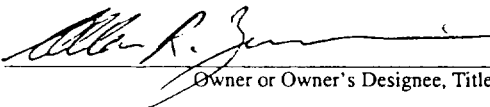
No Section XI Pre-Service NDE was performed in support of this activity.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A

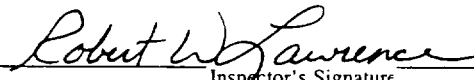
Signed:  A.R. Zimmerman  
Owner or Owner's Designee, Title Welding Engineer Date: 05/17/1999

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 4-13-99 to 4-18-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB8226 ANI, MD647  
Inspector's Signature National Board, State, and Endorsements  
 Date: May 18, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 03/31/1999  
(name)
- G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
(address)
2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
(name)
- 1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 95-2-066, MWO No. 2199503843  
(address) (P.O. no., job no., etc.)
3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
(name) Authorization No.: N/A
- CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, Md. 20657 Exp Date: N/A  
(address) Section XI Class: Two
4. Identification of System: System Number 052 System Name: Safety Injection
5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class Two
- (b) Applicable Sect XI Ed. for Repairs/Replacement 1983 Edition, Summer 83 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping System	Bechtel	DC2-2002	N/A	Safety Injection Recirc. to Refueling Water Tank	1977	Replaced	No
Pipe	Sandvik Steel Inc.	F-5630	N/A	Pipe, 2 in. Sch. 80, Stainless Steel, SA-376, Type 304	1977	Replacement	No
Elbow	Bechtel	F-5631	N/A	Elbow, 90 deg., 2", 3000#, Socketweld, SA-182, F304 Stainless Steel	1979	Replacement	No
Reducer Insert	LADISH CO.	F-5588	N/A	Reducer Insert, 2"x1", 3000#, Socketweld, SA-182, F304 Stainless Steel	1973	Replacement	No

7. Description of Work:  
 Replace 2" recirculation piping adjacent to #22 HPSI pump.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: 1250 psi. Test Temperature: 68 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**FORM JIS-2 (Back)**

9. Remarks:

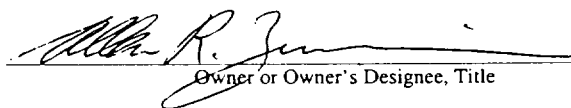
A Section XI System Hydrostatic Test of the affected component as performed during the system conditions listed in section 8. of this report. A Section XI Surface Examination of the affected component was performed to satisfy Section XI Pre-Service Requirements. During the pump suction piping being non-isoiable from the outlet piping, the System Hydrostatic Test required pressure is 625 psi. The HPSI pump was run to provide a pressure of approximately 1200 psi. A Section XI Surface Examination was performed to satisfy Pre-Service requirements.

Applicable Manufacturer's Data Reports to be Attached

**Certificate of Compliance**

We certify that the statements made in this report are correct and that this **Replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A


Signed:  A.R. Zimmerman  
 Owner or Owner's Designee, Title Welding Engineer Date: 03/31/1999

**Certificate of Inservice Inspection**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 11-8-95 to 6-18-98, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB8226 ANI, MD647  
 Inspector's Signature National Board, State, and Endorsements  
 Date: June 14, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 8/26/98  
(name)
- G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
(address)
2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
(name)
- 1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 96-2-075a, MWO No. 2199604119  
(address) (P.O. no., job no., etc.)
3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
(name) Authorization No.: N/A
- CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, Md. 20657 Exp Date: N/A  
(address) Section XI Class: One
4. Identification of System: System Number 064 System Name: Reactor Coolant System.
5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1983 Edition, Summer 1983 Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1983 Edition, Summer 83 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCP Seal	Sulzer Bingham Inc.	1C865		# 21A Reactor Coolant Pump Mechanical Seal	1988	Replaced	Yes
Seal	Sulzer Bingham Inc.	13645-MX 1C868	N/A	Seal, Cartridge Assembly (RCP) 875B-3V Complete Sulzer Bingham per FCR 87-0074	1988	Replacement	Yes

7. Description of Work:

This R&R Plan is to allow replacement of mechanical seal on # 21A Reactor Coolant Pump as necessary. The seal was rebuilt under MWO 1199601175.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: 2300 psi Test Temperature: 532 Deg. F

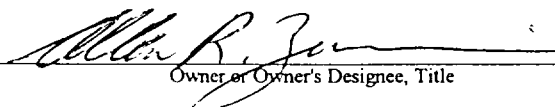
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

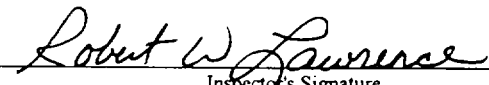
## FORM NIS-2 (Back)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

<b>Certificate of Compliance</b>		
We certify that the statements made in this report are correct and that this <u>Replacement</u> conforms to the rules of the ASME Code, Section XI.		
Type Code Symbol Stamp: <u>N/A</u>		
Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>		
Signed: <u></u> <small>Owner or Owner's Designee, Title</small>	A.R. Zimmerman Welding Engineer	Date: <u>8/26/98</u>

<b>Certificate of Inservice Inspection</b>	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the	
components described in this Owner's Report during the period <u>12-9-96</u> to <u>5-18-97</u> , and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.	
<u></u> <small>Inspector's Signature</small>	Commissions: <u>NB226 ANI, MD647</u> <small>National Board, State, and Endorsements</small>
Date: <u>Jan. 25, 1997</u>	

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 8/26/98  
(name)

G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
(name)

1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 96-2-075b, MWO No. 2199604119  
(address) (P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
(name) Authorization No.: N/A  
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, Md. 20657 Exp Date: N/A  
(address) Section XI Class: One

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1965 Edition, Winter 1967 Add; Class A

(b) Applicable Sect XI Ed. for Repairs/Replacement 1983 Edition, Summer 83 Addenda

6 Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pump	Byron Jackson Pump	171003 793-S-2976 33976	N/A	#21A Reactor Coolant Pump	1977	Replaced	Yes
Cover	BWIP International Inc.	19991-GS	N/A	Cover Assembly, Heat Exchanger, Refurbished by BWIP (1997)	1996	Replacement	No

7. Description of Work:

This R&R Plan is to make necessary repairs to # 21A Reactor Coolant Pump; replacing pump rotating assembly, bolting and cover assembly as necessary.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: 2300 psi Test Temperature: 532 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

## FORM NIS-2 (Back)

## 9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. A Section XI VT-1 Visual Examination was performed on pump casing flange surface and replacement nuts. A Section XI VT-3 Visual Examination was performed on pump casing interior.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: \_\_\_\_\_

Owner or Owner's Designee, Title

A.R. Zimmerman

Welding Engineer

Date: 8/26/98

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 12-9-96 to 5-18-97, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W Lawrence  
Inspector's Signature

Commissions: NBB226 ANI, MD647  
National Board, State, and Endorsements

Date: Jan. 25, 1999



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 07/09/1999  
 (name)  
G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
 (address)
2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
 (name)  
1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 96-2-081, MWO No. 2199702940  
 (address) (P.O. no., job no., etc.)
3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
 (name) Authorization No.: N/A  
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, Md. 20657 Exp Date: N/A  
 (address) Section XI Class: One
4. Identification of System: System Number 052 System Name: Safety Injection
5. (a) Applicable Construction Code and Class: ASME B31.1.0 1967 Edition, CCase N-10  
 (b) Applicable Sect XI Ed. for Repairs/Replacement 1983 Edition, Summer 83 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	0028	N/A	22A Reactor Coolant Loop Inlet Check Valve	1977	Replaced	No
Disc	Velan Engineering Co.	10523-GX 7051	N/A	Disc, Velan, 12 in., 1500 lb., Swing Check Valve, SA-182, SS F316, #6 Stellite, P/N 8209-033N440	1995	Replacement	No
Stud	Velan Engineering Co.	53907-GX	N/A	Stud, Cover, Velan 12" Swing Chk Vlv., P-34754-1, 1-7/8 in. X 8 TPI X 9-1/4 in. SA-193 Gr. B7	1991	Replacement	No
Nut	Velan Engineering Co.	10479-GX	N/A	Nut, Hex, Cover, 1-7/8 in. X 8 TPI, SA-194 Grade 7, for 12 in. Swing Check Valve, 1500 Lb.	1995	Replacement	No
Nut	Velan Engineering Co.	90247-GX	N/A	Nut, Hex, Cover, 1-7/8 in. X 8 TPI, SA-194 Grade 7, for 12 in. Swing Check Valve, 1500 Lb.	1994	Replacement	No

7. Description of Work:

Open and inspect 2CKVSI-247; replace valve disc and bolting as necessary.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: N/A psi. Test Temperature: N/A Deg. F

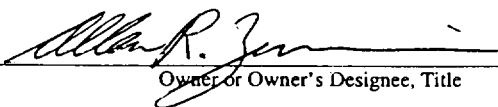
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.


## FORM NIS-2 (Back)

9. Remarks:

A Section XI VT-1 Visual Examination of the replacement threaded fasteners was performed to satisfy Section XI Pre-Service NDE Requirements. Performed a construction code surface examinations of the swing arm damaged areas, and the disc drilled keyway. The replacement valve wedge/plug/disc/trim received a Construction Code Surface Examination at the request of the resident ANII.

Applicable Manufacturer's Data Reports to be Attached

<b>Certificate of Compliance</b>		
We certify that the statements made in this report are correct and that this <u>Replacement</u> conforms to the rules of the ASME Code, Section XI.		
Type Code Symbol Stamp:	<u>N/A</u>	
Certificate of Authorization No.:	<u>N/A</u>	Expiration Date: <u>N/A</u>
Signed: <u></u>	A.R. Zimmerman Welding Engineer	Date: <u>07/09/1999</u>
Owner or Owner's Designee, Title		

<b>Certificate of Inservice Inspection</b>	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the	
components described in this Owner's Report during the period <u>12-6-96</u> to <u>4-13-99</u> , and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.	
<u></u> <small>Inspector's Signature</small>	Commissions: <u>NB8226 ANI, MD647</u> <small>National Board, State, and Endorsements</small>
Date: <u>July 9, 1999</u>	

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 7/22/98  
(name)
- G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
(address)
2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
(name)
- 1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 97-2-129, MWO No. 2199505020  
(address) (P.O. no., job no., etc.)
3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
(name) Authorization No.: N/A
- CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, Md. 20657 Exp Date: N/A  
(address) Section XI Class: Two
4. Identification of System: System Number 041 System Name: Chemical Volume Control
5. (a) Applicable Construction Code and Class: ASME B31.1.0 1967 Edition, 1972 Add;  
 (b) Applicable Sect XI Ed. for Repairs/Replacement 1983 Edition, Summer 83 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping System	Bechtel	2"HC-7	N/A	CVC Basket Strainer (2BS209) Drain-Off Line	1977	Replaced	No
Bushing, Reducing	Mid Atlantic Instrumentation Inc	698	N/A	Bushing, Pipe, Reducing, 2" Male NPT Thread to 1" Female NPT Thread	1997	Replacement	No

7. Description of Work:

Replaced existing 2" NPT stainless steel drain line assembly off 2BS209 to 3/4" bent tubing and 3/4" MK2200 isolation valve in accordance with ES199601774.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: 104 psi. Test Temperature: 154 Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

### FORM NIS-2 (Back)

9. Remarks:

A Section XI System Inservice Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

#### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: C.H. Ballard C.H. Ballard  
Owner or Owner's Designee, Title Engineering Technician Date: 7/22/98

#### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 6-17-97 to 6-10-98, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence Commissions: NB 8726 ANI, MD 647  
Inspector's Signature ational Board, State, and Endorsement  
 Date: July 27, 1998

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 10/9/97  
(name)

G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
(name)

1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 97-2-130, MWO No. 2199701412  
(address) (P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
(name) Authorization No.: N/A

CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, Md. 20657 Exp Date: N/A  
(address) Section XI Class: Two

4. Identification of System: System Number 052 System Name: Safety Injection

5.(a) Applicable Construction Code and Class: ASME Draft Code for Pumps & Valves for Nuclear Power, 1968 Ed. thru March '70 Addenda Class Two

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1983 Edition, Summer 83 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	T8515	N/A	2" Safety Injection Welded Bonnet Gate Valve	1977	Repaired	No

7. Description of Work:

Seal weld existing leak-off plug to 2HVS1-400 valve body.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks:

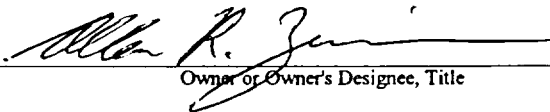
No Section XI Pre-Service NDE was performed in support of this activity.

Applicable Manufacturer's Data Reports to be Attached

**Certificate of Compliance**

We certify that the statements made in this report are correct and that this Repair conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A

Signed:  A.R. Zimmerman  
Owner or Owner's Designee, Title Welding Engineer Date: 10/9/97

**Certificate of Inservice Inspection**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Arkwright Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 6-18-97 to 10-7-97, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Factory Mutual Engineering Association

 Commissions: NBBZZGAN I MD 647  
Inspector's Signature National Board, State, and Endorsements  
 Date: Oct. 27 1997

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 9/3/97  
(name)  
G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
(name)  
1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 97-2-132, MWO No. 2199702802  
(address) (P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
(name) Authorization No.: N/A  
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A  
(address) Section XI Class: Two

4. Identification of System: System Number 041 System Name: Chemical Volume Control

5. (a) Applicable Construction Code and Class: USAS B31.7 Class Two, 1969 Edition thru Summer 1971 Addenda  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1983 Edition, Summer 83 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	2HVCVC-361	N/A	DRN CHG LINE in PEN RM	1977	Repaired	No

7. Description of Work:  
 Seal weld 1/4" leak-off plug on 2HVCVC-361.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

## FORM NIS-2 (Back)

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Repair conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: *Roger Cantrell* R.E. Cantrell  
Owner or Manufacturer's Designee, Title Sr. Engineer Date: 9/3/97

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Arkwright Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 5-16-97 to 9-3-97, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Factory Mutual Engineering Association

*Robert W. Lawrence* Commissions: NB 8226 AIC, MD 647  
Inspector's Signature National Board, State, and Endorsement

Date: Sept. 3, 1997



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 10/7/98  
(name)  
G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
(name)  
1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 97-2-133, MWO No. 2199705361  
(address) (P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
(name) Authorization No.: N/A  
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A  
(address) Section XI Class: Two

4. Identification of System: System Number 052 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: ASME Draft Code for Pumps & Valves, 1968 Edition, March 1970 Add; Class Two

(b) Applicable Sect XI Ed. for Repairs/Replacement 1983 Edition, Summer 83 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	T8515	N/A	2" Safety Injection Welded Bonnet Gate Valve	1977	Repaired	No

7. Description of Work:  
 Re-perform seal weld on existing leak-off plug to valve stuffing box which failed PMT under MWO# 2199701412.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: 150 psi. Test Temperature: 84 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

### FORM NIS-2 (Back)

9. Remarks:

A Section XI System Functional Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

#### Certificate of Compliance

We certify that the statements made in this report are correct and that this Repair conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A

Signed:

*Alta R. Zimmerman*  
 Owner or Owner's Designee, Title

A.R. Zimmerman  
 Welding Engineer

Date: 10/7/98

#### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 9-17-97 to 8-5-98, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

*Robert W. Lawrence*  
 Inspector's Signature

Commissions: NB 8226 AWE, MD 647  
 National Board, State, and Endorsements

Date: Oct. 12 1998

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 4/29/98  
(name)
- G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
(address)
2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
(name)
- 1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 98-2-001, MWO No. 2199800254  
(address) (P.O. no., job no., etc.)
3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
(name) Authorization No.: N/A  
 Exp Date: N/A  
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657 Section XI Class: Two  
(address)
4. Identification of System: System Number 052 System Name: Safety Injection
5. (a) Applicable Construction Code and Class: Combustion Engineering Spec. 8067-487-710 w/Code Case N-10  
 (b) Applicable Sect XI Ed. for Repairs/Replacement 1983 Edition, Summer 83 Addenda

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	1464	N/A	No. 22 High Pressure Pump Safety Injection Pump discharge check valve	1977	Replaced	No
Disc	Velan Engineering Co.	93710-GX 6592	N/A	Disc for Velan 3 in. 900 Lb. swing check valve, ASME SA-182 F316 (Hardfaced w/Stellite #6)	1994	Replacement	No

7. Description of Work:

Install new disc (s/n 6592) on #22 HPSI Pump Discharge Check Valve 2CKVSI-414. Remove Anti-Rotation lugs on disc in accordance with MCR 93-052-022.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

# FORM NIS-2 (Back)

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity. The replacement valve wedge/plug received a Construction Code Surface Examination at the request of the resident ANII.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: C.H. Ballard C.H. Ballard  
Owner or Owner's Designee, Title Engineering Technician Date: 4/29/98

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 1-23-98 to 1-30-98, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence Commissions: NB8226 ANI, MD647  
Inspector's Signature National Board, State, and Endorsements  
 Date: Sept. 28, 1998

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: 06/07/1999

G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203  
(address)

Sheet 1 of 2

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

Unit: Two

1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702  
(address)

R&R No. 98-2-004, MWO No. 2199704055  
(P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED  
(name)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Exp Date: N/A

CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657  
(address)

Section XI Class: One

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1968 Edition, Winter 1968 Add; Class A, CCases N-2, N-10

(b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Dresser Industrial Valve Co.	BN-04375	N/A	2-1/2" CC-10-2007; Unit-2 Pressurizer Safety Relief Valve	1970	Replaced	Yes
Valve, Relief	Dresser Industries, Inc.	2905 BV-02950	N/A	Valve, Consolidated Closed Bonnet Maxiflow Safety; 2-1/2 in. Model 31739A	1997	Replacement	Yes

7. Description of Work:

Replace Unit-2 Pressurizer Safety Relief Valve, 2RV200. No additional parts are specified, as this MWO will replace this valve in its entirety.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: 2300 psi. Test Temperature: 532 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

## FORM NIS-2 (Back)

9. Remarks:

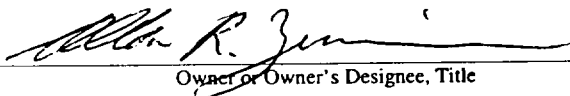
A Section XI VT-1 Visual Examination of the replacement threaded fasteners was performed to satisfy Section XI Pre-Service NDE Requirements. A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this **Replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A

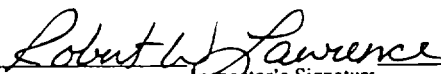
Signed:  A.R. Zimmerman  
Owner or Owner's Designee, Title Welding Engineer Date: 06/07/1999

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 4-18-98 to 5-5-98, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NBB226 ANI, MD 647  
Inspector's Signature National Board, State, and Endorsements  
 Date: June 9, 1999



Alexandria, Louisiana USA

FORM NVR-1 REPORT OF REPAIR  MODIFICATION  OR REPLACEMENT   
OF NUCLEAR PRESSURE RELIEF DEVICES

Dresser Industries Inc., Dresser Valve And Controls Division, Industrial Valve  
Operation

01-25720-0  
(P.O. Job no., etc.)

1. Work performed by Intersection Hwy 167 & 3225 North, Alexandria, Louisiana  
(name of organization)

2. Work performed for BG&E 1650 Calverts Cliffs Parkway Lusby, MD 20657  
(name and address)

3. Owner BG&E Calverts Cliffs Nuclear Station 1650 Calvert Cliffs Parkway Lusby, MD 20657  
(name)

4. Name, address and identification of nuclear power plant BG&E Calverts Cliffs Nuclear Station 1650 Calvert Cliffs Parkway Lusby, MD 20657

5. a. Repaired pressure relief device: Safety Valve  
b. Name of manufacturer: same as Item 1 above  
c. Identifying nos. 31739A BV-02950 N/A Steam 2-1/2" 1982  
(type) (part & stock no.) (part & stock no.) (service) (size) (year built)

d. Construction Code ASME Section III 1968 Winter 1968 N/A N/A  
(name/section/division) (edition) (addenda) (Code Case(s)) (Code Case)

6. ASME Code Section XI applicable for inservice inspection: 1983 Summer 1983 N/A  
(edition) (addenda) (Code Case(s))

7. ASME Code Section XI used for repairs, modifications, or replacements: 1983 Summer 1983 N/A  
(edition) (addenda) (Code Case(s))

8. Construction Code used for repairs, modifications, or replacements: 1968 Winter 1968 N/A  
(edition) (addenda) (Code Case(s))

9. Design responsibilities Same as Item #1

10. Opening pressure: 2485 Blowdown (if applicable) N/A % Set pressure and blowdown adjustment using Steam  
made at: Wyle Laboratories, Huntsville, AL (test medium)

11. Description of work: (include name and identifying number of replacement parts) Disassembled, inspected, cleaned, Assembled and Tested

12. Remarks: Drilled 3/8" hole in disc holder to meet current design

CERTIFICATE OF COMPLIANCE

I, R.A. Thomas certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 107 to use the "NVR" stamp expires 6/29-19 98  
National Board Certificate of Authorization No. 48 to use the "NR" stamp expires 6/30-19 99  
Date 4-28 1997 Signed same as Item 1 above  
(name of repair organization) (authorized representative)

Redney R. Thomas  
Principal Quality Assurance Engineer  
(title)

CERTIFICATE OF INSPECTION

I, B.C. Doshier holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of LOUISIANA and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 4/28 19 97 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from our connected with this inspection.

Date 4/28 19 97 Signed B.C. Doshier  
(inspector)

Commissions LA664  
(National Board (and endorsements), and jurisdiction, and no.)

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: 05/26/1999

G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203  
(address)

Sheet 1 of 2

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

Unit: Two

1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702  
(address)

R&R No. 98-2-005, MWO No. 2199704057  
(P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED  
(name)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657  
(address)

Exp Date: N/A

Section XI Class: One

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1968 Edition, Winter 1968 Add; Class A, CCases N-2, N-10

(b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Dresser Industrial Valve Co.	BM07949	N/A	2-1/2" CC-10-2008; Unit-2 Pressurizer Safety Relief Valve	1977	Replaced	Yes
Valve, Relief	Dresser Industries, Inc.	2905 BS03213	N/A	Valve, Consolidated Closed Bonnet Maxiflow Safety; 2-1/2 in. Model 31739A	1997	Replacement	Yes

7. Description of Work:

Replace Unit-2 Pressurizer Safety Relief Valve, 2RV201. No additional parts are specified, as this MWO will replace the valve in its entirety.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: 2300 psi. Test Temperature: 532 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## FORM NIS-2 (Back)

9. Remarks:

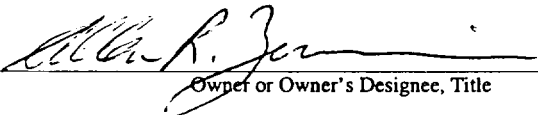
A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. A Section XI VT-1 Visual Examination was performed for valve pressure retaining bolting.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A


Signed:  A.R. Zimmerman  
Owner or Owner's Designee, Title Welding Engineer Date: 05/26/1999

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 4-18-98 to 5-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB 8226 ANI, MD647  
Inspector's Signature National Board, State, and Endorsements  
 Date: June 14, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 06/15/1999  
 (name)
- G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
 (address)
2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
 (name)
- 1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 98-2-011, MWO No. 2199800340  
 (address) (P.O. no., job no., etc.)
3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
 (name) Authorization No.: N/A  
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A  
 (address) Section XI Class: Two
4. Identification of System: System Number 083 System Name: Main Steam & SG Secondary Side & SG
5. (a) Applicable Construction Code and Class: ASME Draft Code for Pumps & Valves, 1968 Edition, March 1970  
Add; Class Two
- (b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Masonellan International Inc.	F7984	N/A	#22 S/G Bottom Blowdown Containment Isolation Valve	1977	Replaced	Yes
Plug	Masonellan	95589-GX A16671-3	N/A	Plug, valve, 2", 600 lb., Masonellan p/n 013434-023-1A7	1995	Replacement	No

7. Description of Work:

Overhaul bottom blowdown containment isolation valve, 2CV4013, for #22 steam generator; replace valve plug as necessary.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: N/A psi. Test Temperature: N/A Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

## FORM NIS-2 (Back)

**9. Remarks:**

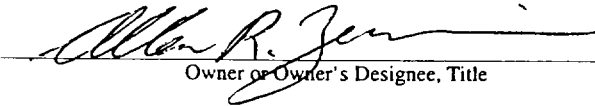
No Section XI Pre-Service NDE was performed in support of this activity. The replacement valve wedge/plug/disc/trim received a Construction Code Surface Examination at the request of the resident ANII.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A


Signed:  A.R. Zimmerman  
Owner or Owner's Designee, Title Welding Engineer Date: 06/15/1999

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 4-13-98 to 5-6-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB 8226 ANI, MD 647  
Inspector's Signature National Board, State, and Endorsements  
 Date: June 24, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: 06/01/1999

G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203  
(address)

Sheet 1 of 2

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

Unit: Two

1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702  
(address)

R&R No. 98-2-013, MWO No. 2199800339  
(P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED  
(name)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657  
(address)

Exp Date: N/A

Section XI Class: Two

4. Identification of System: System Number 083 System Name: Main Steam & SG Secondary Side & SG

5. (a) Applicable Construction Code and Class: ASME Draft Code for Pumps & Valves, 1968 Edition, March 1970 Add; Class Two

(b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Masonellan International Inc.	H59104-2-4	N/A	#21 S/G Bottom Blowdown Containment Isolation Valve	1977	Replaced	Yes
Plug	Masonellan	95589-GX 3820721	N/A	Plug, valve, 2", 600 lb., Masonellan p/n 013434-023-1A7	1995	Replacement	No

7. Description of Work:

Overhaul bottom blowdown containment isolation valve for #21 steam generator; replace valve plug as necessary.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

## FORM NIS-2 (Back)

**9. Remarks:**

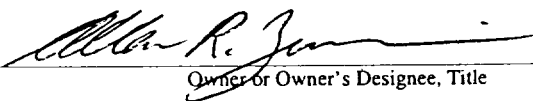
No Section XI Pre-Service NDE was performed in support of this activity. The surface examination of the replacement plug was waived by the ANI.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A


Signed:  A.R. Zimmerman  
Owner or Owner's Designee, Title Welding Engineer Date: 06/01/1999

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 4-16-98 to 5-14-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NBB226 ANI, MD647  
Inspector's Signature National Board, State, and Endorsements

Date: June 9, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 11/11/98  
(name)
- G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
(address)
2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
(name)
- 1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 98-2-094, MWO No. 2199802320  
(address) (P.O. no., job no., etc.)
3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
(name) Authorization No.: N/A
- CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A  
(address) Section XI Class: One
4. Identification of System: System Number 064 System Name: Reactor Coolant System
5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1965 Edition, Winter 1967 Add; Class A  
CCases: 1336, 1338-3, 1359-1

(b) Applicable Sect XI Ed. for Repairs/Replacement 1986 Edition

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pressure Vessel	Combustion Engineering	CE 67603	20916	No. 21 Pressurizer upper penetration 2-LT-110X	1972	Replaced	Yes
Nozzle	Combustion Engineering Inc.	40316-GX	N/A	Nozzle Ass. P/N E-9343-C090-24	1990	Replacement	No

7. Description of Work:

Perform Modification per ES199801103 and FRAM-14 on #21 Pressurizer upper penetration 2-LT-110X.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: 2305 psi. Test Temperature: 532.5 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

## FORM NIS-2 (Back)

9. Remarks:

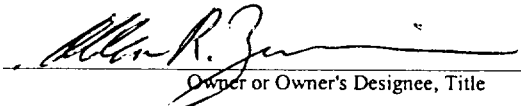
A Section XI System Hydrostatic Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this **Replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A

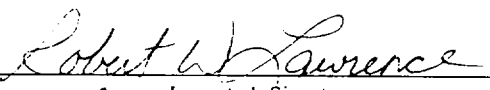
Signed:  A.R. Zimmerman Date: 11/11/98  
Owner or Owner's Designee, Title Welding Engineer

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 7-28-98 to 8-6-98, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NRB226ANE MD647  
Inspector's Signature National Board, State, and Endorsements  
 Date: Dec. 10, 1998

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: 06/09/1999

G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203  
(address)

Sheet 1 of 2

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

Unit: Two

1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702  
(address)

R&R No. 98-2-147, MWO No. 2199703922  
(P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED  
(name)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Exp Date: N/A

CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657  
(address)

Section XI Class: Two

4. Identification of System: System Number 045 System Name: Feedwater

5. (a) Applicable Construction Code and Class: ASME B31.1.0 1967 Edition, B16.5, B16.10

(b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Rockwell International	QU-83	N/A	No. 21 Steam Generator Feed Water Supply Check Valve	1977	Replaced	No
Retainer	Edward Valves Inc.	12001	N/A	Retainer, Hinge Pin, Check Valve, 16", Edwards Fig. 970Y	1997	Replacement	No
Cover	Edward Valve Inc.	24410	N/A	Cover, Pressure Seal, Check Valve, 16", Edwards Fig. 970Y	1998	Replacement	No
Retainer	Edward Valves Inc.	10775-GX	N/A	Retainer, Cover, Check Valve, 16", Edwards Fig. 970Y	1995	Replacement	No

7. Description of Work:

Perform maintenance on Feedwater Check Valve 2CKVFW-133; replace parts and bolting as necessary.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: 870 psi. Test Temperature: 400 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## FORM NIS-2 (Back)

9. Remarks:

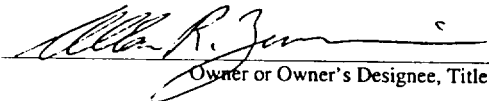
A Section XI System Inservice Test of the affected component was performed during the system conditions listed in Section 8. of this report. ANI Hold Point: The ANI witnessed a surface examination of the replacement "Pressure Seal Cover" prior to installation.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A


Signed:  A.R. Zimmerman  
 Owner or Owner's Designee, Title Welding Engineer Date: 06/09/1999

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 9-9-98 to 5-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB 8226 ANI, MD 647  
 Inspector's Signature National Board, State, and Endorsements  
 Date: \_\_\_\_\_ 199\_\_

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 12, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-165

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199604869  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 52 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73345358-53 (VB) 8869B-1-SP	N/A	2-52-20A	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73355668-196 (VB) 9514B-1-SP	N/A	2-52-20A	1998	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-52-20A

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.


Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed:  Dan Hoang  
Owner or Owner's Designee, Title Senior Engineer Date: April 12, 1999

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-12-99 to 4-7-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

  
Inspector's Signature

Commissions: NB8226ANI MD647  
National Board, State, and Endorsements

Date: April 29, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: March 18, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-166

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199800573  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 11 System Name: Service Water Cooling

5. (a) Applicable Construction Code and Class: USAS B31.1 1967 ED. thru 1972 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/TWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-42 (VB) 80102860-5	N/A	2-11-16A	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 91219610-10 (VB) 17091-4	N/A	2-11-16A	1995	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-11-16A

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2" x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

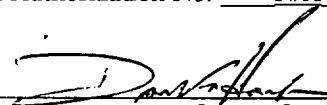
This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No: N/A Expiration Date: N/A

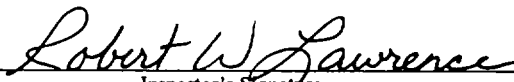
Signed:  Dan Hoang  
 Senior Engineer Date: March 18, 1999  
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-12-99 to 3-17-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB9226 ANI, MD647  
 Inspector's Signature National Board, State, and Endorsements

Date: April 28, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)  
G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Date: March 31, 1999

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

R&R No: 98-2-169

MWO No: 2199704491  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Type Code Symbol Stamp: N/A  
 Authorization No: N/A Exp Date: N/A

Section XI Class: Two

4. Identification of System: System Number: 36 System Name: Auxiliary Feedwater

5. (a) Applicable Construction Code and Class: USAS B31.1 1967 ED. thru 1972 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/TWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-2 (VB) 79398753-541	N/A	2-36-5	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404797-69 (VB) 79398753-347	N/A	2-36-5	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-36-5

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

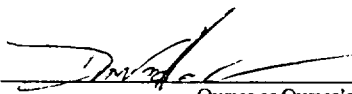
Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed:  Dan Hoang  
 Senior Engineer Date: March 31, 1999  
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-12-99 to 3-31-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

  
 Inspector's Signature

Commissions: NB 7525 1BNA PA 2159 <sup>MD. 765</sup>  
 National Board, State, and Endorsements

Date: APRIL 14 1999

**FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

**As Required By the Provisions of the ASME Code Section XI**

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 12, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-170

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199800579  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 45 System Name: Feedwater

5. (a) Applicable Construction Code and Class: USAS B31.1 1967 ED. thru 1972 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 76181172-11 (VB) 1644-5-A	N/A	2-45-1A	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 90203740-9 (VB) 15156-62	N/A	2-45-1A	1995	Replacement ...	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-45-1A

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM NIS-2, (Back)


9. Remarks:  
This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
Certificate of Authorization No: N/A Expiration Date: N/A

Signed:  Dan Hoang  
Senior Engineer Date: April 12, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-12-99 to 4-3-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

  
Inspector's Signature

Commissions: NB8226 A1E, MD647  
National Board, State, and Endorsements

Date: May 12, 1999

## FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 12, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-171

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199800581  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 52 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/TWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 72237426-172 (VB) 5825-2-A	N/A	2-52-5	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73306121-65 (VB) 7721B-2-A	N/A	2-52-5	1998	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-52-5

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Dan Hoang  
Senior Engineer Date: April 12, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-12-99 to 4-7-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

[Signature] Commissions: NB226ANI, MD647  
Inspector's Signature National Board, State, and Endorsements

Date: April 28, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 12, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-172

1650 Calvert Cliffs Parkway, Lusby, MD 20657-4702  
(address)

MWO No: 2199800582  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway, Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 52 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED, thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73319134-18 (VB) 8109B-1-SP	N/A	2-52-9	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-27 (VB) 80102860-9	N/A	2-52-9	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-52-9

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

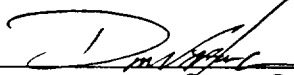
Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

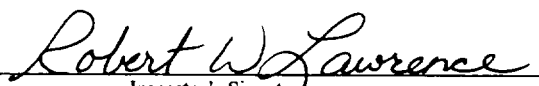
Signed:  Dan Hoang  
Owner or Owner's Designee, Title Senior Engineer Date: April 12, 1999

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-12-99 to 4-7-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB8226 ANI, MD647  
Inspector's Signature National Board, State, and Endorsements

Date: April 28, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 12, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-176

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199800587  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 52 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73355668-203 (VB) 9840B-1-SP <del>9840-1-SP</del> <i>DMC 5/2/99</i>	N/A	2-52-20	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73355668-81 (VB) 9645B-1-SP	N/A	2-52-20	1997	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-52-20

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**FORM NIS-2, (Back)**

**9. Remarks:**

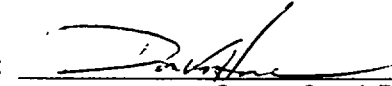
This plan implements Generic Replacement Plan G2, Rev. 1.

**Applicable Manufacturer's Data Reports to be Attached**

**Certificate of Compliance**

We certify that the statements made in this report are correct and that this **Replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp:   N/A    
 Certificate of Authorization No:   N/A        Expiration Date:   N/A  

Signed:       Dan Hoang  
Owner or Owner's Designee, Title      Senior Engineer      Date: April 12, 1999

**Certificate of Inservice Inspection**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-12-99 to 4-8-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

  
Inspector's Signature

Commissions: NB 8226 ANI, MD 647  
National Board, State, and Endorsements

Date: May 5, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 1, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-178

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199704515  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 52 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 78325466-85 (VB) 78308457-121	N/A	2-52-26	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 76121499-446 (VB) B6987-118- D71C	N/A	2-52-26	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-52-26

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:

Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Dan Hoang  
Senior Engineer Date: April 1, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-12-99 to 4-1-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions: NB 7525 IBNA MD 765  
National Board, State, and Endorsements

Date: APRIL 14 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: March 29, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-179

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199800589  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 52 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 72252902-225 (VB) 4469-2-A	N/A	2-52-34	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73345359-66 (VB) 8678-B-2-A	N/A	2-52-34	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-52-34

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Dan Hoang  
Senior Engineer Date: MARCH 29, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-12-99 to 3-21-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

[Signature] Commissions: NB8226 A1E MD647  
Inspector's Signature National Board, State, and Efdorsements

Date: April 28, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: March 20, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-180

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199800590  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A

Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 52

System Name: Safety Injection

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 91203758-8 (VB) 16241-56	N/A	2-52-38	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 80102861-44 (VB) 80102860-74	N/A	2-52-38	1998	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-52-38

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks:

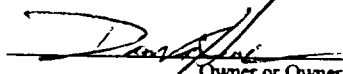
This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No: N/A Expiration Date: N/A

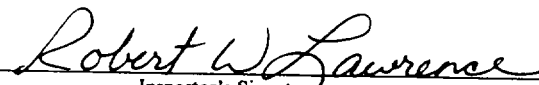
Signed:  Dan Hoang  
Owner or Owner's Designee, Title Senior Engineer Date: March 20, 1999

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-12-99 to 3-19-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB8226 ANI MD647  
Inspector's Signature National Board, State, and Endorsements

Date: April 28, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 10, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-181

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199800591  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 52 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 72252902-159 (VB) 4873-2-A	N/A	2-52-43	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 72253902-54 (VB) 3207-2-A	N/A	2-52-43	1998	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-52-43

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2" x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Dan Hoang  
Senior Engineer Date: April 10, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-13-99 to 4-1-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

[Signature] Commissions: NB 8226ANI, MD647  
Inspector's Signature National Board, State, and Endorsements

Date: April 28, 1999

**FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

**As Required By the Provisions of the ASME Code Section XI**

1. Owner: Baltimore Gas Electric Company  
(name)

Date: March 29, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-182

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199800592  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 52 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED, thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73345358-19 (VB) 9929B-2-A	N/A	2-52-44	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 72237426-21 (VB) 6085-2-A	N/A	2-52-44	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-52-44

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



**FORM NIS-2, (Back)**

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.


**Applicable Manufacturer's Data Reports to be Attached**

**Certificate of Compliance**

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp:   N/A  

Certificate of Authorization No:   N/A   Expiration Date:   N/A  


Signed:  Dan Hoang  
Owner or Owner's Designee, Title Senior Engineer Date: March 29, 1999

**Certificate of Inservice Inspection**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-13-99 to 3-25-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB B226 AWE M2647  
Inspector's Signature National Board, State, and Endorsements

Date: April 28, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)  
G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Date: March 27, 1999

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

R&R No: 98-2-183

MWO No: 2199704500  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Type Code Symbol Stamp: N/A  
 Authorization No: N/A Exp Date: N/A

Section XI Class: One

4. Identification of System: System Number: 52 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: USAS B31.1 1969 ED. thur 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73306121-204 (VB) 8040-B-2-A	N/A	2-52-46	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 72252902-31 (VB) 6231B-2-A	N/A	2-52-46	1998	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-52-46

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Dan Hoang  
Senior Engineer Date: March 27, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-13-99 to 3-24-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W Lawrence Commissions: NB 8226 ANI, MD 647  
Inspector's Signature National Board, State, and Endorsements

Date: April 28, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: March 27, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-184

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199704516  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 52 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 add.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-35 (VB) 79398753-35 <i>1/18/99</i>	N/A	2-52-50A	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-55 (VB) 80102860-13	N/A	2-52-50A	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-52-50A

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Dan Hoang  
Senior Engineer Date: March 27, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-13-99 to 3-27-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions: NB 8226 ANI, MD 647  
National Board, State, and Endorsements

Date: April 28, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: March 27, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-185

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199704507  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 52 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: USAS B31.1 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73306121-222 (VB) 8044-B-2-A	N/A	2-52-54	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 72252902-23 (VB) 6166-2-A	N/A	2-52-54	1998	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-52-54

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

### FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.


Applicable Manufacturer's Data Reports to be Attached

#### Certificate of Compliance

We certify that the statements made in this report are correct and that this **Replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed:  Dan Hoang  
Senior Engineer Date: March 27, 1999  
Owner or Owner's Designee, Title

#### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-13-99 to 3-27-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

  
Inspector's Signature

Commissions: NB 7525 1BNA MD 765  
National Board, State, and Endorsements

Date: APRIL 15 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: March 23, 1998

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-189

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199704506  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 60 System Name: Primary Containment Heaters

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/TWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73345358-3 (VB) 8613B-1-SP	N/A	2-60-12	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73355668-222 (VB) 9652B-1-SP	N/A	2-60-12	1998	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-60-12

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM NIS-2, (Back)

9. Remarks:


This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No. N/A Expiration Date: N/A

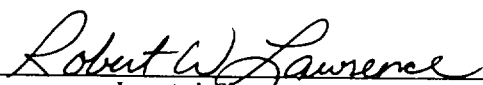
Signed:  Dan Hoang  
 Senior Engineer Date: March 23, 1999  
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-13-99 to 3-20-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB8226 ANI, MD647  
 Inspector's Signature National Board, State, and Endorsements

Date: April 28, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 1, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-191

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199800593  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 61

System Name: Containment Spray

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73355668-124 (VB) 9422B-1-SP	N/A	2-61-3	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73355668-427 (VB) 9854B-1-SP	N/A	2-61-3	1998	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-61-3

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:

Pressure: N/A psi.

Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No: N/A Expiration Date: N/A

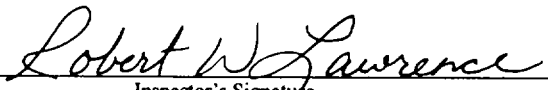
Signed:  Dan Hoang  
 Senior Engineer Date: April 1, 1999  
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-13-99 to 3-29-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB8226ANI, MD647  
 Inspector's Signature National Board, State, and Endorsements

Date: April 28, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 10, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-192

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199800595  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 61 System Name: Containment Spray

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/TWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73345358-78 (VB) 8755B-1-SP	N/A	2-61-4	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-61 (VB) 79398753-202	N/A	2-61-4	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-61-4

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Dan Hoang  
Senior Engineer Date: April 10, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-13-99 to 4-2-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W Lawrence  
Inspector's Signature

Commissions: NBB226ANI MD647  
National Board, State, and Endorsements

Date: April 28, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: March 29, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-193

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199704489  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 63 System Name: Steam Generator Blowdown

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/TWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404794-86 (VB) 80102860-15	N/A	2-63-2	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-56 (VB) 80102860-7	N/A	2-63-2	1998	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-63-2

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:

Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**FORM NIS-2, (Back)**

9. Remarks:


This plan implements Generic Replacement Plan G2, Rev. 1.

**Applicable Manufacturer's Data Reports to be Attached**

**Certificate of Compliance**

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No: N/A      Expiration Date: N/A

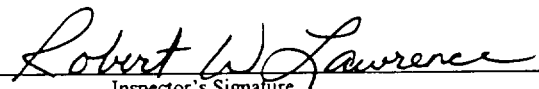
Signed:       Dan Hoang  
    Senior Engineer      Date: March 29, 1999  
    Owner or Owner's Designee, Title

**Certificate of Inservice Inspection**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-13-99 to 3-23-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

      Commissions: NBB226ANZ, MD647  
    Inspector's Signature      National Board, State, and Endorsements

Date: April 30, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 3, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-194

1650 Calvert Cliffs Parkway, Lusby, MD 20657-4702  
(address)

MWO No: 2199704437  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway, Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 63

System Name: Steam Generator

5. (a) Applicable Construction Code and Class: CE 8067-487-503

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/TWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 33156120-9 (VB) VB-11/VB-24	N/A	2-63-19	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) <i>2-63-19</i> 33156120- <del>9</del> 3 (VB) VB-26/VB-36	N/A	2-63-19	1998	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-63-19

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:

Pressure: N/A psi.

Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM NIS-2, (Back)

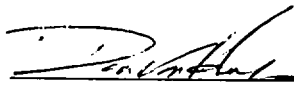
9. Remarks:  
This plan implements Generic Replacement Plan G3, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
Certificate of Authorization No: N/A Expiration Date: N/A

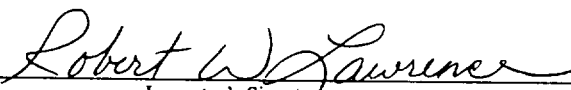
Signed:  Dan Hoang  
Senior Engineer Date: April 3, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-13-99 to 3-26-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB8226 ANI, MD647  
Inspector's Signature National Board, State, and Endorsements

Date: May 5, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 3, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-195

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199704492  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 63 System Name: Steam Generator

5. (a) Applicable Construction Code and Class: CE 8067-487-503

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/TWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 33156120-38 (VB) ZB-19/ZB-20	N/A	2-63-24	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 92216861-1 (VB) 16219-4 16219-9	N/A	2-63-24	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-63-24

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:

Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks:


This plan implements Generic Replacement Plan G3, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No: N/A Expiration Date: N/A


Signed:  Dan Hoang  
 Senior Engineer Date: April 3, 1999  
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-13-99 to 4-2-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

  
 Inspector's Signature

Commissions: NB8226ANI, MD647  
 National Board, State, and Endorsements

Date: May 11, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)  
G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Date: April 3, 1999

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

R&R No: 98-2-196

MWO No: 2199704497  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Type Code Symbol Stamp: N/A  
 Authorization No: N/A Exp Date: N/A

Section XI Class: Two

4. Identification of System: System Number: 63 System Name: Steam Generator

5. (a) Applicable Construction Code and Class: CE 8067-487-503

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 33156120-42 (VB) ZB-6/ZB-15	N/A	2-63-25	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 33156120-47 (VB) ZB-1/ZB-4	N/A	2-63-25	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-63-25

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**FORM NIS-2, (Back)**

9. Remarks:

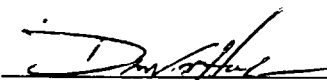
This plan implements Generic Replacement Plan G3, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

**Certificate of Compliance**

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp:   N/A    
 Certificate of Authorization No:   N/A        Expiration Date:   N/A  

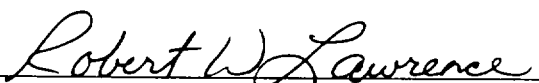
Signed:       Dan Hoang  
Owner or Owner's Designee, Title      Senior Engineer      Date: April 3, 1999

**Certificate of Inservice Inspection**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-13-99 to 4-1-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

      Commissions: NBB226 ANI, MD647  
Inspector's Signature      National Board, State, and Endorsements

Date: April 30, 1999

## FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)  
G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Date: March 31, 1999

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

R&R No: 98-2-197

MWO No: 2199800596  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Type Code Symbol Stamp: N/A  
 Authorization No: N/A Exp Date: N/A

Section XI Class: Two

4. Identification of System: System Number: 63 System Name: Steam Generator

5. (a) Applicable Construction Code and Class: CE 8067-487-503

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) XAAG9443-001 (VB) C1018-879	N/A	2-63-26	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 33156120-36 (VB) ZB-24/ZB-25	N/A	2-63-26	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-63-26

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G3, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Dan Hoang Senior Engineer Date: March 31, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-13-99 to 3-30-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions: 7525 NB 18NA MD 765  
National Board, State, and Endorsements

Date: APRIL 14 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 10, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-198

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199704508  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 64 System Name: Reactor Coolant

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73326235-49 (VB) 8300B-1-SP	N/A	2-64-9	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) C-98-10-01 (VB) 9126B-1-SP	N/A	2-64-9	1998	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-64-9

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



**FORM NIS-2, (Back)**

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

**Applicable Manufacturer's Data Reports to be Attached**

**Certificate of Compliance**

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp:   N/A    
 Certificate of Authorization No:   N/A        Expiration Date:   N/A  

Signed:       Dan Hoang  
Owner or Owner's Designee, Title      Senior Engineer      Date: April 10, 1999

**Certificate of Inservice Inspection**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 4-6-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

  
Inspector's Signature

Commissions: NB 8226 AWI, MD 647  
National Board, State, and Endorsements

Date: April 30, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 9, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-199

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199704505  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 64 System Name: Reactor Coolant

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	ASME Code	
						Repaired, Replaced, or Replacement	Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73345358-59 (VB) 8614B-1-SP	N/A	2-64-12	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 74402396-163 (VB) 10168B-1-SP	N/A	2-64-12	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-64-12

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:  
This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
Certificate of Authorization No: N/A Expiration Date: N/A


Signed:  Dan Hoang  
Senior Engineer Date: April 9, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 4-8-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NBB226ANI, MD647  
Inspector's Signature National Board, State, and Endorsements

Date: April 30, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 9, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-200

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199800597  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 64

System Name: Reactor Coolant

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 74402396-178 (VB) 10281B-1-SP	N/A	2-64-12A	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73326235-87 (VB) 8269B-1-SP	N/A	2-64-12A	1997	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-64-12A

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

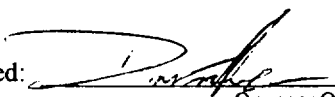
Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

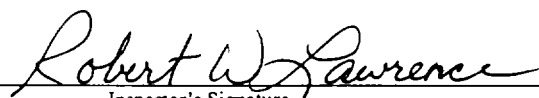
Signed:  Dan Hoang  
 Senior Engineer Date: April 9, 1999  
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 4-8-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NBB226ANI MD647  
 Inspector's Signature National Board, State, and Endorsements

Date: April 28, 1999

## FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)  
G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Date: March 20, 1999  
  
 Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

R&R No: 98-2-201  
  
 MWO No: 2199704498  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Type Code Symbol Stamp: N/A  
 Authorization No: N/A Exp Date: N/A  
  
 Section XI Class: One

4. Identification of System: System Number: 64 System Name: Reactor Coolant

5. (a) Applicable Construction Code and Class: USAS B31.7 1969ED. thru 1971 ADD.  
 (b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired,	ASME
						Replaced, or Replacement	Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73355668-223 (VB) 9883B-A-SP	N/A	2-64-15	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73326235-90 (VB) 8375B-1-SP	N/A	2-64-15	1999	Replacement	No

7. Description of Work:  
**PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-64-15**

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: N/A psi. Test Temperature: N/A Deg.

**NOTE:** Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2" x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**FORM NIS-2, (Back)**

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

**Certificate of Compliance**

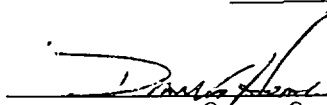
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A

Expiration Date: N/A

Signed: \_\_\_\_\_



Owner or Owner's Designee, Title

Dan Hoang

Senior Engineer

Date: March 20, 1999

**Certificate of Inservice Inspection**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 3-19-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

\_\_\_\_\_  
*Robert W. Lawrence*  
 Inspector's Signature

Commissions: NB 8226 N.E., MD 647  
 National Board, State, and Endorsements

Date: April 30, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 12, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-202

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199704495  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 64 System Name: Reactor Coolant

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73326235-98 (VB) 8492B-1-SP	N/A	2-64-18	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73355668-436 (VB) 6400B-2-A	N/A	2-64-18	1998	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-64-18

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Dan Hoang  
Senior Engineer Date: April 12, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 4-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence Commissions: NB 8226 ANZ, MD 647  
Inspector's Signature National Board, State, and Endorsements

Date: April 30, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 10, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-203

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199704512  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 64 System Name: Reactor Coolant

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-58 (VB) 80102860-3	N/A	2-64-19	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-5 (VB) 80102860-17	N/A	2-64-19	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-64-19

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:

Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Dan Hoang  
Senior Engineer Date: April 10, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 4-3-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W Lawrence  
Inspector's Signature

Commissions: NB8226ANI, MD647  
National Board, State, and Endorsements

Date: April 30, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: March 29, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-204

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199800598  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 64 System Name: Reactor Coolant

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-7 (VB) 80102860-11	N/A	2-64-25	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 74400328-140 (VB) 9975-B-1-SP	N/A	2-64-25	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-64-25

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Dan Hoang  
Senior Engineer Date: March 29, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 3-29-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence Commissions: NB 8226 ANI, MD 647  
Inspector's Signature National Board, State, and Endorsements

Date: April 28, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 10, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-205

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199704494  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 64 System Name: Reactor Coolant

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/TWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-59 (VB) 80102860-10	N/A	2-64-26	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-60 (VB) 79398753-451	N/A	2-64-26	1998	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-64-26

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

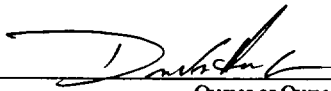
Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

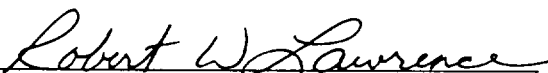
Signed:  Dan Hoang  
 Senior Engineer Date: April 10, 1999  
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 3-28-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB8226ANI, MD647  
 Inspector's Signature National Board, State, and Endorsements

Date: April 30, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 9, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-206

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199704509  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 64 System Name: Reactor Coolant

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73355668-231 (VB) 9979B-1-SP	N/A	2-64-27	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73355668-221 (VB) 9980B-1-SP	N/A	2-64-27	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-64-27

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Dan Hoang  
Senior Engineer Date: April 9, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 4-6-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W Lawrence  
Inspector's Signature

Commissions: NBB226 ANI, MD 647  
National Board, State, and Endorsements

Date: April 30, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 10, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-207

1650 Calvert Cliffs Parkway, Lusby, MD 20657-4702  
(address)

MWO No: 2199704490  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway, Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 64 System Name: Reactor Coolant

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/TWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 74402396-66 (VB) 10165B-1-SP	N/A	2-64-28A	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 74402396-176 (VB) 8549-1-SP	N/A	2-64-28A	1997	Replacement	No

7. Description of Work:

**PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-64-28A**

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:

Pressure: N/A psi. Test Temperature: N/A Deg.

**NOTE:** Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed: [Signature] Dan Hoang  
Senior Engineer Date: April 10, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 4-6-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

[Signature] Commissions: NB2226 ANZ, MD647  
Inspector's Signature National Board, State, and Endorsements

Date: April 30, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: March 20, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-208

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199800599  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 64 System Name: Reactor Coolant

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/TWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 74462697-247 (VB) 10489B-2-A	N/A	2-64-30	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73345359-21 (VB) 9924B-2-A	N/A	2-64-30	1998	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-64-30

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**FORM NIS-2, (Back)**

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

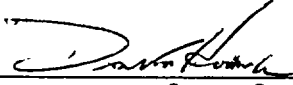
**Applicable Manufacturer's Data Reports to be Attached**

**Certificate of Compliance**

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A


Signed:  Dan Hoang  
 Senior Engineer Date: March 20, 1999  
 Owner or Owner's Designee, Title

**Certificate of Inservice Inspection**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 3-19-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NBB226AWI, MD647  
 Inspector's Signature National Board, State, and Endorsements

Date: April 28, 1999

**FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)  
G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Date: March 20, 1999

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

R&R No: 98-2-209

MWO No: 2199800600  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Type Code Symbol Stamp: N/A  
 Authorization No: N/A Exp Date: N/A

Section XI Class: One

4. Identification of System: System Number: 64 System Name: Reactor Coolant

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 75503198-94 (VB) 80511048-15	N/A	2-64-30A	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 75593196-92 (VB) B2556-A2-D71C	N/A	2-64-30A	1996	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-46-30A

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

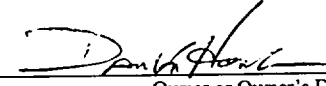
9. Remarks:  
This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
Certificate of Authorization No: N/A Expiration Date: N/A

Signed:  Dan Hoang  
Senior Engineer Date: March 20, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 3-30-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

  
Inspector's Signature

Commissions: NB 7525 IBNA MD 765  
National Board, State, and Endorsements

Date: APRIL 14 1999

## FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)  
G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Date: mARCH 29, 1999

Unit: fWO

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

R&R No: 98-2-210

MWO No: 2199704518  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

Section XI Class: ONE

4. Identification of System: System Number: 64 System Name: Reactor Cooling

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 74402397-203 (VB) 10446B-2-A	N/A	2-64-38	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73326236-76 (VB) 9389-B-1-SP	N/A	2-64-38	1998	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-64-38

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

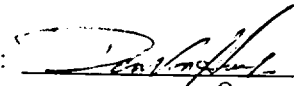
Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed:  Dan Hoang  
 Senior Engineer Date: March 29, 1999  
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 3-29-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

  
 Inspector's Signature

Commissions: NB 7525 IBNA MD 765  
 National Board, State, and Endorsements

Date: APRIL 15 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 10, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-211

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199704513  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 83 System Name: Main Steam

5. (a) Applicable Construction Code and Class: USAS B31.1 1967 ED. thru 1972 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 88101085-5 (VB) 8912442-3	N/A	2-83-34	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 86340253-7 (VB) 2282-A2	N/A	2-83-34	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-83-34

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A

Signed:  Dan Hoang  
 Senior Engineer Date: April 10, 1999  
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 4-10-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

  
 Inspector's Signature

Commissions: NB B226ANI MD647  
 National Board, State, and Endorsements

Date: April 1999

## FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 28, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-212

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199704519  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: One

4. Identification of System: System Number: 64 System Name: Reactor Coolant

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 EDD. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/TWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 87392610 (VB) KY024D58-A4	N/A	2-64-43	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 78309511-1 (VB) 77244537-112	N/A	2-64-43	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-64-43

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks:

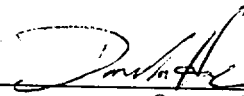
This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No: N/A Expiration Date: N/A

Signed:  Dan Hoang  
Owner or Owner's Designee, Title Senior Engineer Date: April 28, 1999

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 4-27-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

  
Inspector's Signature

Commissions: NB8226 AWI, MD647  
National Board, State, and Endorsements

Date: May 11, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 10, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-213

1650 Calvert Cliffs Parkway, Lusby, MD 20657-4702  
(address)

MWO No: 2199704517  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway, Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 83 System Name: Main Steam

5. (a) Applicable Construction Code and Class: USAS B31.1 1967 ED. thru 1972 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/TWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 88101085-10 (VB) 8912442-29	N/A	2-83-33	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 81134402-10 (VB) 54670-012- ZB127	N/A	2-83-33	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-83-33

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
Certificate of Authorization No: N/A Expiration Date: N/A


Signed:  Dan Hoang  
Senior Engineer Date: April 10, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 4-9-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB8226 ANI, MD647  
Inspector's Signature National Board, State, and Endorsements

Date: April 30, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)  
G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Date: April 16, 1999

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

R&R No: 98-2-214

MWO No: 2199800633  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Type Code Symbol Stamp: N/A  
 Authorization No: N/A Exp Date: N/A

Section XI Class: Two

4. Identification of System: System Number: 83 System Name: Main Steam

5. (a) Applicable Construction Code and Class: USAS B31.1 1967 ED. thru 1972 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 86350052-14 (V) 86342149-100	N/A	2-83-16A	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404806-30 (VB) B2264-A2	N/A	2-84-16A	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-83-16A

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



**FORM NIS-2, (Back)**

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

**Applicable Manufacturer's Data Reports to be Attached**

**Certificate of Compliance**

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A

Certificate of Authorization No: N/A Expiration Date: N/A


Signed:  Dan Hoang  
 Senior Engineer Date: April 16, 1999  
 Owner or Owner's Designee, Title

**Certificate of Inservice Inspection**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 4-12-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NBB226ANI MD 647  
 Inspector's Signature National Board, State, and Endorsements

Date: April 29, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)  
G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Date: April 14, 1999

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

R&R No: 98-2-215

MWO No: 2199800602  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Type Code Symbol Stamp: N/A  
 Authorization No: N/A Exp Date: N/A

Section XI Class: Two

4. Identification of System: System Number: 83 System Name: Main Steam

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(TWE/TWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 78318146-7 (VB) 79371872-263	N/A	2-83-2A	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79437626-7 (VB) 79398754-176	N/A	2-83-2A	1998	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-83-2A

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)


9. Remarks:  
This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
Certificate of Authorization No: N/A Expiration Date: N/A


Signed:  Dan Hoang  
Senior Engineer Date: April 14, 1999  
Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 4-13-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NBB226AWI, MD647  
Inspector's Signature National Board, State, and Endorsements

Date: April 29, 1999

**FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)  
G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Date: April 12, 1999

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

R&R No: 98-2-216

MWO No: 2199800603  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)  
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

Section XI Class: Two

4. Identification of System: System Number: 83 System Name: Main Steam

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 78318146-9 (VB) V5128-2	N/A	2-83-3	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 81134402-1 (VB) 79398754-333	N/A	2-83-3	1994	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-83-3

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2, (Back)

9. Remarks:


This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No: N/A Expiration Date: N/A

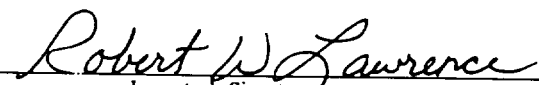
Signed:  Dan Hoang  
 Senior Engineer Date: April 12, 1999  
 Owner or Owner's Designee, Title

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 4-7-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NBB226ANI, MD647  
 Inspector's Signature National Board, State, and Endorsements

Date: April 28, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: April 16, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-217

1650 Calvert Cliffs Parkway, Lusby, MD 20657-4702  
(address)

MWO No: 2199800606  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway, Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 83 System Name: Main Steam

5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) C-90-11-01 (V) V-90-11-01-13 <i>On 4/17/99</i>	N/A	2-83-4	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 86340253-1 (VB) 86342149-44	N/A	2-84-4	1999	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-83-4

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**FORM NIS-2, (Back)**

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached

**Certificate of Compliance**

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp:   N/A    
 Certificate of Authorization No:   N/A        Expiration Date:   N/A  

Signed: \_\_\_\_\_ Dan Hoang  
Owner or Owner's Designee, Title      Senior Engineer      Date:   April 16, 1999  

**Certificate of Inservice Inspection**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period   1-14-99   to   4-12-99  , and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

  Robert W Lawrence    
Inspector's Signature

Commissions:   NB8226ANI, MD647    
National Board, State, and Endorsements

Date:   April 29, 1999

# FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: March 19, 1999

G&E Building, P.O. Box 1475, Baltimore, MD, 21203  
(address)

Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

R&R No: 98-2-218

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

MWO No: 2199800604  
(PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD  
(name)

Type Code Symbol Stamp: N/A  
Authorization No: N/A Exp Date: N/A

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702  
(address)

Section XI Class: Two

4. Identification of System: System Number: 83 System Name: Main Steam

5. (a) Applicable Construction Code and Class: USAS B31.1 1967 ED. thru 1972 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda  
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 75503196 (VB) 80511048-1	N/A	2-83-15	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 91219611-35 (VB) 16345-91	N/A	2-83-15	1995	Replacement	No

7. Description of Work:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-83-15

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



**FORM NIS-2, (Back)**

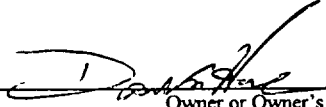
9. Remarks:  
This plan implements Generic Replacement Plan G2, Rev. 1.

**Applicable Manufacturer's Data Reports to be Attached**

**Certificate of Compliance**

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
Certificate of Authorization No: N/A Expiration Date: N/A

Signed:  Dan Hoang  
Senior Engineer Date: March 19, 1999  
Owner or Owner's Designee, Title

**Certificate of Inservice Inspection**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the

components described in this Owner's Report during the period 1-14-99 to 3-19-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

  
Inspector's Signature

Commissions: NB 75251BNA MD 765  
National Board, State, and Endorsements

Date: APRIL 15 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 06/08/1999  
 (name)  
G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
 (address)
2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
 (name)  
1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 98-2-252b, MWO No. 2199802432  
 (address) (P.O. no., job no., etc.)
3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
 (name) Authorization No.: N/A  
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A  
 (address) Section XI Class: Two
4. Identification of System: System Number 061 System Name: Containment Spray
5. (a) Applicable Construction Code and Class: ASME Draft Code for Pumps & Valves, 1968 Edition, March 1970  
Add; Class Two
- (b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	0358	N/A	No. 21 Containment Spray Header Containment Side Check Valve	1977	Repaired	No

7. Description of Work:  
 Perform machining as necessary on 2CKVSI-330 valve disc per ESP # ES199900426-000.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: N/A psi. Test Temperature: N/A Deg. F

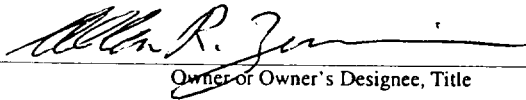
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.


## FORM NIS-2 (Back)

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity. Performed a Construction Code surface examination of all machined surfaces prior to installation of the disc.

Applicable Manufacturer's Data Reports to be Attached

<b>Certificate of Compliance</b>		
We certify that the statements made in this report are correct and that this		<u>Repair</u>
the ASME Code, Section XI.		conforms to the rules of
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>		
Signed:	 Owner or Owner's Designee, Title	A.R. Zimmerman Welding Engineer    Date: <u>06/08/1999</u>

<b>Certificate of Inservice Inspection</b>	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the	
components described in this Owner's Report during the period <u>4-3-99</u> to <u>5-6-99</u> , and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.	
Date: <u>June 9, 1999</u>	Commissions: <u>NBB226ANI MD647</u> <small>National Board, State, and Endorsements</small>
 <small>Inspector's Signature</small>	

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: 05/25/1999

G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203  
(address)

Sheet 1 of 2

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

Unit: Two

1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702  
(address)

R&R No. 98-2-253b, MWO No. 2199802433  
(P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED  
(name)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Exp Date: N/A

CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657  
(address)

Section XI Class: Two

4. Identification of System: System Number 061 System Name: Containment Spray

5. (a) Applicable Construction Code and Class: ASME Draft Code for Pumps & Valves, 1968 Edition, March 1970 Add; Class Two

(b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

6 Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	v1v: 0379, disc: 6310	N/A	No. 22 Containment Spray Header Containment Side Check Valve	1977	Repaired	No

7. Description of Work:

Perform machining as necessary on 2CKVSI-340 valve disc per ESP # ES199900426-000.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

### FORM NIS-2 (Back)

9. Remarks:

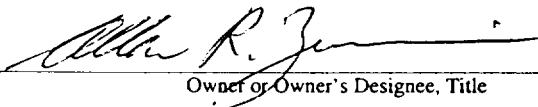
No Section XI Pre-Service NDE was performed in support of this activity. A Construction Code surface examination of all valve disc machined surfaces was performed prior to installation of the disc.

Applicable Manufacturer's Data Reports to be Attached

#### Certificate of Compliance

We certify that the statements made in this report are correct and that this Repair conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A


Signed:  A.R. Zimmerman  
Owner or Owner's Designee, Title Welding Engineer Date: 05/25/1999

#### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 4-3-99 to 5-6-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NBB226 ANI, MD647  
Inspector's Signature National Board, State, and Endorsements  
 Date: June 14, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: 07/12/1999

G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203  
(address)

Sheet 1 of 2

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

Unit: Two

1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702  
(address)

R&R No. 98-2-254a, MWO No. 2199700924  
(P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED  
(name)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657  
(address)

Exp Date: N/A

Section XI Class: One

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1983 Edition, Summer 1983 Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCP Seal	Sulzer Bingham Inc.	1C863	NB 1249	# 21B Reactor Coolant Pump Mechanical Seal	1988	Replaced	Yes
Seal	Information for rebuild will be field supplied.	Rebuilt 1C865	N/A	Seal, Cartridge Assembly (RCP) 875B-3V Complete Sulzer Bingham per FCR 87-0074		Replacement	Yes

7. Description of Work:

Replace mechanical seal on #21B Reactor Coolant Pump, as necessary. The replacement seal ID #(1C865) was rebuilt under MO # 0199701836. No pressure retaining parts were replaced.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: 2300 psi. Test Temperature: 532 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**FORM NIS-2 (Back)**

9. Remarks:

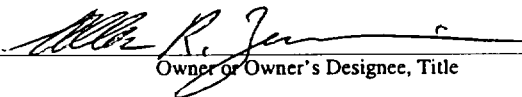
A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

**Certificate of Compliance**

We certify that the statements made in this report are correct and that this **Replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A


Signed:  A.R. Zimmerman  
Owner or Owner's Designee, Title Welding Engineer Date: 07/12/1999

**Certificate of Inservice Inspection**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 11-5-98 to 5-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB BZZL ANI, MD 647  
Inspector's Signature National Board, State, and Endorsements  
 Date: July 12, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 07/14/1999  
 (name)  
G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
 (address)
2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
 (name)  
1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 98-2-255a, MWO No. 2199700926  
 (address) (P.O. no., job no., etc.)
3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
 (name) Authorization No.: N/A  
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A  
 (address) Section XI Class: One
4. Identification of System: System Number 064 System Name: Reactor Coolant System
5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1983 Edition, Summer 1983 Add; Class One
- (b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCP Seal	Sulzer Bingham Inc.	1C875	NB 1242	# 22B Reactor Coolant Pump Mechanical Seal	1988	Replaced	Yes
Seal	Rebuild info field supplied	Rebuilt 1C874	N/A	Seal, Cartridge Assembly (RCP) 875B-3V Complete Sulzer Bingham per FCR 87-0074		Replacement	Yes

7. Description of Work:

Replace mechanical seal on #22B Reactor Coolant Pump, as necessary. The replacement seal ID #(1C874) was rebuilt under MO # 1199700068. No pressure retaining parts were replaced during the rebuild of this cartridge.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: 2300 psi. Test Temperature: 532 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## FORM NIS-2 (Back)

9. Remarks:

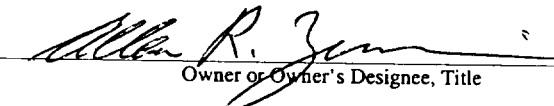
A Section XI System Hydrostatic Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A

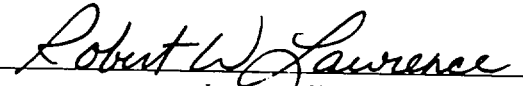
Signed:  A.R. Zimmerman  
Owner or Owner's Designee, Title Welding Engineer Date: 07/14/1999

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 3-16-99 to 5-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB 8226 ANI, MD 647  
Inspector's Signature National Board, State, and Endorsements

Date: July 14, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 07/13/1999  
(name)  
G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
(name)  
1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 98-2-255b, MWO No. 2199700926  
(address) (P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
(name) Authorization No.: N/A  
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A  
(address) Section XI Class: One

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1965 Edition, Winter 1967 Add; Class A  
 (b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pump	Byron Jackson Pump	681-N-0444	N/A	#22B Reactor Coolant Pump	1977	Replaced	Yes
Cover	Rebuild info field supplied	Rebuilt 681-N-0437	N/A	Pump Cover and Heat Exchanger Assembly, Bryon Jackson Part No. 1E-3567V V	1998	Replacement	No

7. Description of Work:  
 This R&R Plan was to make necessary repairs to # 22B Reactor Coolant Pump (2PUMPRC22B). A rebuilt rotating assembly and pump cover was installed back into 22B pump casing.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: 2300 psi. Test Temperature: 532 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

## FORM NIS-2 (Back)

9. Remarks:

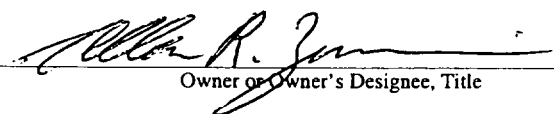
A Section XI System Hydrostatic Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A

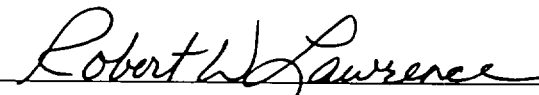
Signed:  A.R. Zimmerman  
 Owner or Owner's Designee, Title Welding Engineer Date: 07/13/1999

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 11-10-98 to 5-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB 8226 ANI, MD 647  
 Inspector's Signature National Board, State, and Endorsements

Date: July 14, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 07/09/1999  
 (name)  
G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
 (address)
2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
 (name)  
1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 98-2-275a, MWO No. 2199801841  
 (address) (P.O. no., job no., etc.)
3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
 (name) Authorization No.: N/A  
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A  
 (address) Section XI Class: Two
4. Identification of System: System Number 052 System Name: Safety Injection
5. (a) Applicable Construction Code and Class: ASME B31.1.0 1967 Edition, CCase N-10  
 (b) Applicable Sect XI Ed. for Repairs/Replacement: 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	2CKVSI-434	N/A	#22 LPSI Pump Discharge Check Valve	1977	Replaced	No
Valve	Mannesmann Demag Huttentechnik	53523-GX 7762620-3	N/A	Valve, Nozzle Check, 10" 300 lb, Flanged ends, S.S. Body	1991	Replacement	No

7. Description of Work:

This R&R Plan is to allow replacement of #22 Low Pressure Safety Injection Pump Discharge Check Valve (2-SI-434) on piping line 10" GC-1-2003. This work was performed by Framatome Technologies under their special processes and controls.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: 200 psi. Test Temperature: 73 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

## FORM NIS-2 (Back)

9. Remarks:

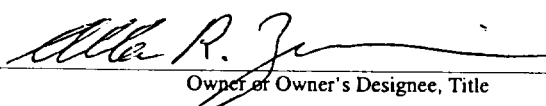
A Section XI System Functional Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this **Replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A


Signed:  A.R. Zimmerman  
Owner of Owner's Designee, Title Welding Engineer Date: 07/09/1999

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 3-11-99 to 4-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB 8226 ANZ, MD 647  
Inspector's Signature National Board, State, and Endorsements  
 Date: July 9, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 07/09/1999  
 (name)  
G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
 (address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
 (name)  
1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 98-2-275b, MWO No. 2199801841  
 (address) (P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
 (name) Authorization No.: N/A  
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A  
 (address) Section XI Class: Two

4. Identification of System: System Number 052 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class Two

(b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping System	Bechtel	10"GC1-2003	N/A	#22 LPSI Pump Discharge Check Valve Piping	1977	Replaced	No
Nut	Nova Machine Products Corp.	20219	N/A	Nut, Heavy Hex, 1 in. X 8 TPI, SA-194 Gr. 2H	1998	Replacement	No
Flange, Pipe, 10", SA-182	Energy Steel & Supply Co.	25863	N/A	Flange, Pipe, 10", Raised Face, 300lb., Welding Neck, ASME SA-182, Grade F316	1998	Replacement	No
Rod	Cardinal Ind. Products	57533-GX	N/A	Rod, Allthread, 1in. X 8 TPI, SA-193 Gr. B7	1992	Replacement	No

7. Description of Work:

This R&R Plan is to allow replacement of necessary piping, weld neck flange, and line bolting when replacing #22 Low Pressure Safety Injection Pump discharge check valve in line class 10" GC-1-2003. This work was performed by Framatome Technologies under their special processes and controls.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: 200 psi. Test Temperature: 73 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

# FORM NIS-2 (Back)

9. Remarks:


A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. Code Case N-416-1 is hereby invoked to satisfy Section XI required pressure test requirements. Volumetric Examination and Surface Examinations of welds were performed in accordance with ASME Section III, 1992 Edition.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A


Signed:  A.R. Zimmerman  
Owner or Owner's Designee, Title Welding Engineer Date: 07/09/1999

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 12-18-98 to 4-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB8226 ANZ MD 647  
Inspector's Signature National Board, State, and Endorsements  
 Date: July 9, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 07/09/1999  
(name)  
G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
(name)  
1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 98-2-276a, MWO No. 2199603215  
(address) (P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
(name) Authorization No.: N/A  
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A  
(address) Section XI Class: Two

4. Identification of System: System Number 052 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: ASME B31.1.0 1967 Edition, CCase N-10

(b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	0043	N/A	#21 LPSI Pump Discharge Check Valve	1977	Replaced	No
Valve	Mannesmann Demag Huttentechnik	53523-GX 7762620-4	N/A	Valve, Nozzle Check, 10" 300 lb, Flanged ends, S.S. Body	1991	Replacement	No

7. Description of Work:

This R&R Plan is to allow replacement of #21 Low Pressure Safety Injection Pump Discharge Check Valve (2-SI-446) on piping line 10" GC-1-2002. This work was performed by Framatome Technologies under their special processes and controls.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: 210 psi. Test Temperature: 90 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## FORM NIS-2 (Back)

9. Remarks:

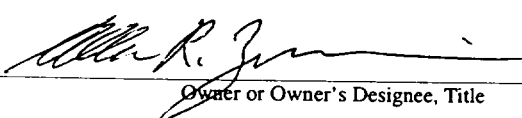
A Section XI System Functional Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A


Signed:  A.R. Zimmerman  
Owner or Owner's Designee, Title Welding Engineer Date: 07/09/1999

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 3-11-99 to 4-22-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB 3226 ANI, MD 647  
Inspector's Signature National Board, State, and Endorsements  
 Date: July 9, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 07/09/1999  
 (name)  
G&E Bulding, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
 (address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
 (name)  
1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 98-2-276b, MWO No. 2199603215  
 (address) (P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
 (name) Authorization No.: N/A  
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A  
 (address) Section XI Class: Two

4. Identification of System: System Number 052 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class Two  
 (b) Applicable Sect XI Ed. for Repairs/Replacement: 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping System	Bechtel	10"GC1-2002	N/A	#21 LPSI Pump Discharge Check Valve Piping	1977	Replaced	No
Nut	Nova Machine Products Corp.	20219	N/A	Nut, Heavy Hex, 1 in. X 8 TPI, SA-194 Gr. 2H	1998	Replacement	No
Rod	Cardinal Ind. Products	57533-GX	N/A	Rod, Allthread, 1in. X 8 TPI, SA-193 Gr. B7	1992	Replacement	No
Flange, Pipe, 10", SA-182	Energy Steel & Supply Co.	25863	N/A	Flange, Pipe, 10", Raised Face, 300lb., Welding Neck, ASME SA-182, Grade F316	1998	Replacement	No

7. Description of Work:

This R&R Plan is to allow replacement of necessary piping, weld neck flange, and line bolting when replacing #21 Low Pressure Safety Injection Pump discharge check valve in line class 10" GC1-2002. This work was performed by Framatome Technologies under their special processes and controls.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: 210 psi. Test Temperature: 90 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

### FORM NIS-2 (Back)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. Code Case N-416-1 is hereby invoked to satisfy Section XI required pressure test requirements. Volumetric Examination and Surface Examinations of welds were performed in accordance with ASME Section III, 1992 Edition.

Applicable Manufacturer's Data Reports to be Attached

#### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: *A.R. Zimmerman* A.R. Zimmerman Date: 07/09/1999  
Owner or Owner's Designee, Title Welding Engineer

#### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 12-18-98 to 4-22-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

*Robert W. Lawrence* Commissions: NB8226 ANI, MD647  
Inspector's Signature National Board, State, and Endorsements  
 Date: July 9, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 07/13/1999  
(name)
- G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
(address)
2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
(name)
- 1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 99-2-012, MWO No. 2199703971  
(address) (P.O. no., job no., etc.)
3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
(name) Authorization No.: N/A
- CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A  
(address) Section XI Class: One
4. Identification of System: System Number 064 System Name: Reactor Coolant System
5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1968 Edition, Winter 1968 Add; Class A, CCases 1581, N-2, N-10
- (b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Dresser Industries	BT06815	N/A	Pressurizer Steam Safety Valve	1977	Replaced	Yes
Valve, Pzr. Relief, ERV	Dresser Industries Inc.	28696 BY68900	N/A	Valve, Pressurizer Relief, ERV, 1&2-ERV-402, 404; 2500 lb.	1998	Replacement	No

7. Description of Work:  
 Replace pressurizer relief valve 2ERV402 with a new valve.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: 2300 psi. Test Temperature: 532 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

### FORM NIS-2 (Back)

9. Remarks:

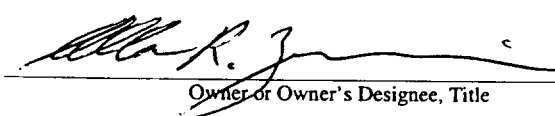
A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. Per Section XI, IWB-2200(b), shop visual and PT exams were accepted in lieu of the specified VT-1 Visual Examination of valve bolting.

Applicable Manufacturer's Data Reports to be Attached

#### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A

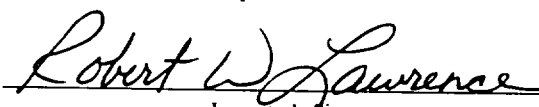
Signed:  A.R. Zimmerman  
 Owner or Owner's Designee, Title Welding Engineer Date: 07/13/1999

#### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 3-19-99 to 7-13-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB 8226 ANI, MD 647  
 Inspector's Signature National Board, State, and Endorsements

Date: July 13, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company Date: 07/13/1999  
(name)

G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203 Sheet 1 of 2  
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two  
(name)

1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702 R&R No. 99-2-014, MWO No. 2199403477  
(address) (P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED Type Code Symbol Stamp: N/A  
(name) Authorization No.: N/A

CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A  
(address) Section XI Class: One

4. Identification of System: System Number 052 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: ASME B16.5 Pipe Flanges and Flanged Fittings NPS 1/2 in. thru 24 in.

(b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	0010	N/A	21A Loop Inlet Check Valve	1977	Replaced	No
Disc	Velan Engineering Co.	10523-GX 7051	N/A	Disc, Velan, 12" 1500# SwiChkv P/N 8209-033N440	1995	Replacement	No
Stud	Velan Engineering Co.	53907-GX	N/A	Stud, Cover, Velan 12" Sw Ckv., P-34754-1, 1-7/8"x8TPIx9-1/4"	1991	Replacement	No
Stud	Velan Engineering Co.	54027-GX	N/A	Stud, Cover, Velan 12" Sw Ckv., P-34754-1, 1-7/8"x8TPIx9-1/4"	1984	Replacement	No
Stud	Velan Engineering Co.	10523-GX	N/A	Stud, Cover, Velan 12" Sw Ckv., P-34754-1, 1-7/8"x8TPIx9-1/4"	1995	Replacement	No
Nut	Velan Engineering Co.	90247-GX	N/A	Nut, Hex, Cover, 1-7/8"x8TPI, SA-194 Gr7, 12 in. SwCkv 1500#	1994	Replacement	No
Nut	Velan Engineering Co.	10479-GX	N/A	Nut, Hex, Cover, 1-7/8"x8TPI, SA-194 Gr7, 12 in. SwCkv 1500#	1995	Replacement	No

7. Description of Work:

Overhaul 2CKVSI-227; replace valve disc and cover bolting as necessary. Remove anti-rotation lugs in accordance with instructions on drawing 12124-0014 if needed.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
 Pressure: 2300 psi. Test Temperature: 532 Deg. F

E: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

## FORM NIS-2 (Back)

9. Remarks:

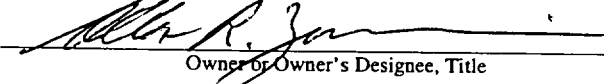
A Section XI VT-1 Visual Examination of the replacement threaded fasteners was performed to satisfy Section XI Pre-Service NDE Requirements. A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. Performed a surface examination of the drilled keyways and cotter pin hole. The replacement valve wedge/plug/disc/trim received a Construction Code Surface Examination at the request of the resident ANII.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A

Signed:  A.R. Zimmerman  
Owner or Owner's Designee, Title Welding Engineer Date: 07/13/1999

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 3-2-99 to 5-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NR8226ANI, MD647  
Inspector's Signature National Board, State, and Endorsements

Date: July 13, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: 05/17/1999

G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203  
(address)

Sheet 1 of 2

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

Unit: Two

1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702  
(address)

R&R No. 99-2-016, MWO No. 2199900912  
(P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED  
(name)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657  
(address)

Exp Date: N/A

Section XI Class: Two

4. Identification of System: System Number 083 System Name: Main Steam & SG Secondary Side & SG

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class Two

(b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping System	Bechtel	6"EB12-2007	N/A	Main Steam Piping between Liner plate and Isolation valves.	1990	Repaired	No

7. Description of Work:

A weld repair will be made to 6"EB-12-2007 because of a location found below minimum wall thickness during an F.A.C. inspection.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## FORM NIS-2 (Back)

9. Remarks:

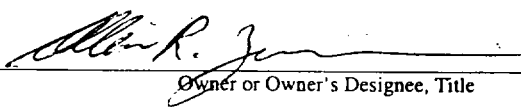
No Section XI Pre-Service NDE was performed in support of this activity.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Repair conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A


Signed:  A.R. Zimmerman  
Owner or Owner's Designee, Title Welding Engineer Date: 05/17/1999

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 3-20-99 to 4-12-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB8226ANI, MD647  
Inspector's Signature National Board, State, and Endorsements  
 Date: June 8, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: 06/09/1999

G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203  
(address)

Sheet 1 of 2

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

Unit: Two

1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702  
(address)

R&R No. 99-2-025, MWO No. 2199901038  
(P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED  
(name)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657  
(address)

Exp Date: N/A

Section XI Class: One

4. Identification of System: System Number 052 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement: 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping System	Bechtel	CC4-2009-R9	N/A	Safety Injection Piping Support	1977	Replaced	No
Plate	Dubose Nat'l Energy	53792-GX	N/A	Plate, Steel 1/2 in. ASME SA-36, Carbon Steel	1992	Replacement	No
Nut	Allied Group	31389	N/A	Nut, Heavy Hex, 3/4 in. X 10 TPI, SA-194 Gr. 2H	1998	Replacement	No
Bolt	Cardinal Ind. Products	88400-GX	N/A	Bolt, Heavy Hex Head, 3/4 in. X 2 in. X 10 TPI, SA-325 Tp. 1	1995	Replacement	No

7. Description of Work:

Modify 12"CC4-2009-R9 beam (box structure); install splice connection on horizontal members.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: N/A psi. Test Temperature: N/A Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

## FORM NIS-2 (Back)

9. Remarks:

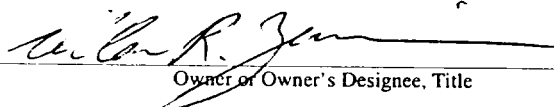
A Section XI VT-3/4 Visual Examination of the affected component support was performed prior to the system being returned to service.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A


Signed:  A.R. Zimmerman  
Owner or Owner's Designee, Title Welding Engineer Date: 06/09/1999

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 4-3-99 to 4-18-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB8226 ANI MD647  
Inspector's Signature National Board, State, and Endorsements  
 Date: June 9, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: 06/09/1999

G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203  
(address)

Sheet 1 of 2

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

Unit: Two

1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702  
(address)

R&R No. 99-2-028, MWO No. 2199705517

(P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED  
(name)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Exp Date: N/A

CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657  
(address)

Section XI Class: Two

4. Identification of System: System Number 083 System Name: Main Steam & SG Secondary Side & SG

5. (a) Applicable Construction Code and Class: Bechtel Spec 6750-M-292 Atmospheric Dump & Turbine Bypass Control Valves

(b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Copes Vulcan Inc.	144004	N/A	#21 Main Steam Header Atmospheric Dump Valve	1977	Replaced	No
Trim	Copes-Vulcan Inc.	26137 145380	N/A	Trim, Assembly, Valve, 5 inch, 600lb., Dwg. B-143178, P/N 701095030001050	1998	Replacement	No

7. Description of Work:

Overhaul #21 Main Steam Atmospheric Dump 2CV3939; replace trim and bolting as necessary.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: 870 psi. Test Temperature: 400 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

## FORM NIS-2 (Back)

9. Remarks:

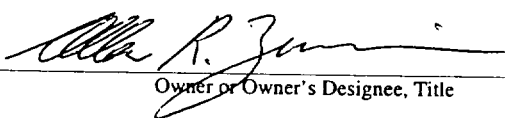
A Section XI System Functional Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A


Signed:  A.R. Zimmerman  
Owner or Owner's Designee, Title Welding Engineer Date: 06/09/1999

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 4-6-99 to 5-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB B226 ANI, MD 647  
Inspector's Signature National Board, State, and Endorsements  
 Date: June 10, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company  
(name)

Date: 07/01/1999

G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203  
(address)

Sheet 1 of 2

2. Plant: Calvert Cliffs Nuclear Power Plant  
(name)

Unit: Two

1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702  
(address)

R&R No. 99-2-036, MWO No. 2199802244  
(P.O. no., job no., etc.)

3. Work Performed by: Baltimore Gas Electric, NED  
(name)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Exp Date: N/A

CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657  
(address)

Section XI Class: Two

4. Identification of System: System Number 052 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: API-Std. 610, 4th Edition, 1965

(b) Applicable Sect XI Ed. for Repairs/Replacement: 83 Ed summer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pump	Ingersol Rand	2PUMPSILPSI21	N/A	#21 Low Pressure Safety Injection Pump	1977	Replaced	No
Pump, Assem., LPSI	Ingersol Rand Co	17190-MX 2873A	N/A	Pump Assembly, Complete minus Pump Casing for Low Pressure Safety Injection Pump(s)	1982	Replacement	No

7. Description of Work:

This R&R Plan is for the replacement of the stuffing box extension on the rotating assembly for #21 Low Pressure Safety Injection Pump. The replacement assembly was rebuilt under MWO 0199600804. The stuffing box extension is considered a pressure retaining part from Mech# 59B35.

8. Tests Conducted: Hydrostatic:  Pneumatic:  Nominal Operating Pressure:   
Pressure: 210 psi. Test Temperature: 90 Deg. F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

## FORM NIS-2 (Back)

9. Remarks:

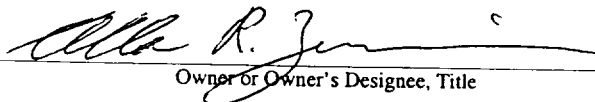
A Section XI System Functional Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

### Certificate of Compliance

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: N/A  
 Certificate of Authorization No.: N/A Expiration Date: N/A


Signed:  A.R. Zimmerman  
Owner or Owner's Designee, Title Welding Engineer Date: 07/01/1999

### Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the

components described in this Owner's Report during the period 4-22-99 to 4-22-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

 Commissions: NB8226 ANI MD647  
Inspector's Signature National Board, State, and Endorsements

Date: July 9, 1999